

FIG. 1a

nucleotide-binding loop



EGF - R2 806
 GFR1 456
 RK 978
 EGF - R1 799
 DGFR α 576

EGF - R2 864
 GFR1 510
 RK 1026
 EGF - R1 857
 DGFR α 623

EGF - R2 924
 GFR1 569
 RK 1084
 EGF - R1 917
 DGFR α 682

EGF - R2 954
 GFR1 587
 RK 1096
 EGF - R1 947
 DGFR α 742

FIG. 1b

activation loop

1011 QVAKGMEFDLASRKC IHRDLAARN ILLSEKNVVKICDFGLARDI YKDPDYVRKGDARLPLK 1070
 606 QVARGMEYSLASKKC IHRDLAARNV LVTE DNVMKIADFG LARDIHH I DYYKK T TNGRLPVK 665
 1115 EIADGMEY -LNAKKFVHRDLAARN CMVAHDF T VKIGDFG MTRDI YE TDYYRKGGKGLLPVR 1174
 1005 QVARGMEFDLSSRKC IHRDLAARN ILLSENNVVKIDDFGLARDI YKNPDYVRKGD TRLPLK 1064
 801 QVARGMEF-LASKKC IHRDLAARNV LLAQGI VKIDDFGLARDIMHDSNYVSKGST FLPVK 860

catalytic loop β7 β8

1071 WMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEFCRRLKEGTRMRRAPDY 923
 666 WMAPEALFDR IYTHQSDVWSFGVLLWEIFSLGASPYPGVPEELF-KLLKEGHRMDRKP SN 568
 1175 WMAPESLKDGVFTTSSDMWSFGW WEITSLAEQPYQGLSNEQVL-KFVMDGGYLDLQPDN 1083
 1065 WMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGASPYPGVQMDDFCSRLREGMRMRAPEY 916
 861 WMAPESIFDNLVTTLSDVWSYGI LLWEIFSLGATPYPGMMVDS TFYNKIKSGYRMAFKPDH 681

αEF αF αG

1171
765
1274
1165
961

αI

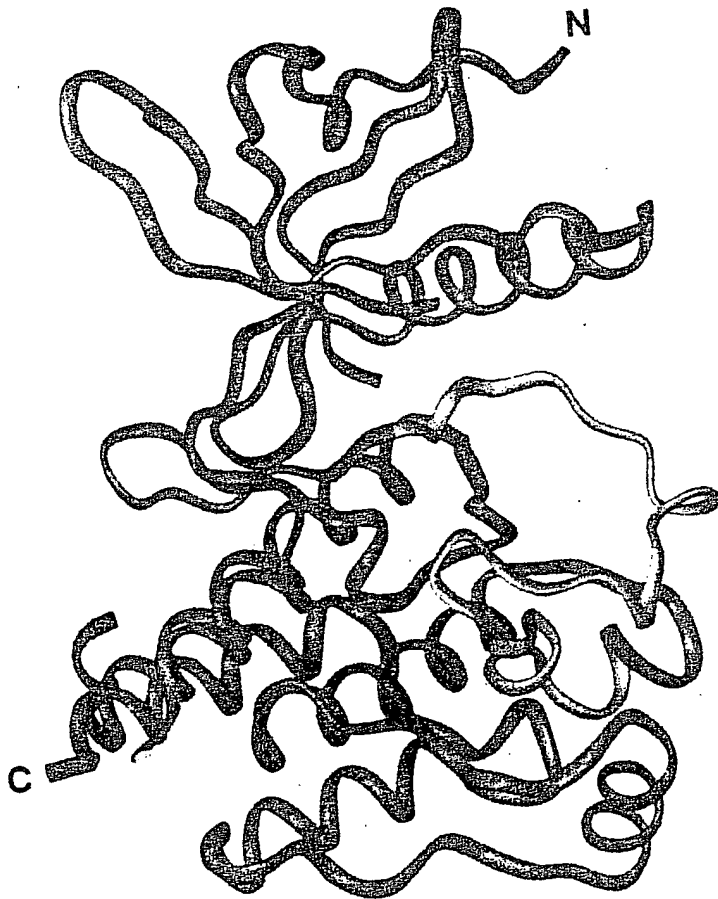
1131 TTPEMYQTMLDCW HGEPSQRPTFSELVEHLGNLLQANAQQD
 725 CTNELYMMMRDCWHA VPSQRPTFKQLVEDLDRI VAL TSNQE
 1234 CPERVTD LMRMCWQFPNMRPTFLEIVNLLKDDLHP SFPEV
 1125 STPEIYQ IMLDCWHRDPKERPRFAELVEKLGDL LQANVQQD
 921 ATSEVYE I MVKCNWSEPEKRP SFYHLSE IVENLLPGQYKKS

αH αI

EGF - R2
GFR1
RK
EGF - R1
DGFRα



FIG. 2b



FGFR1

FOOOO"OOOOOO

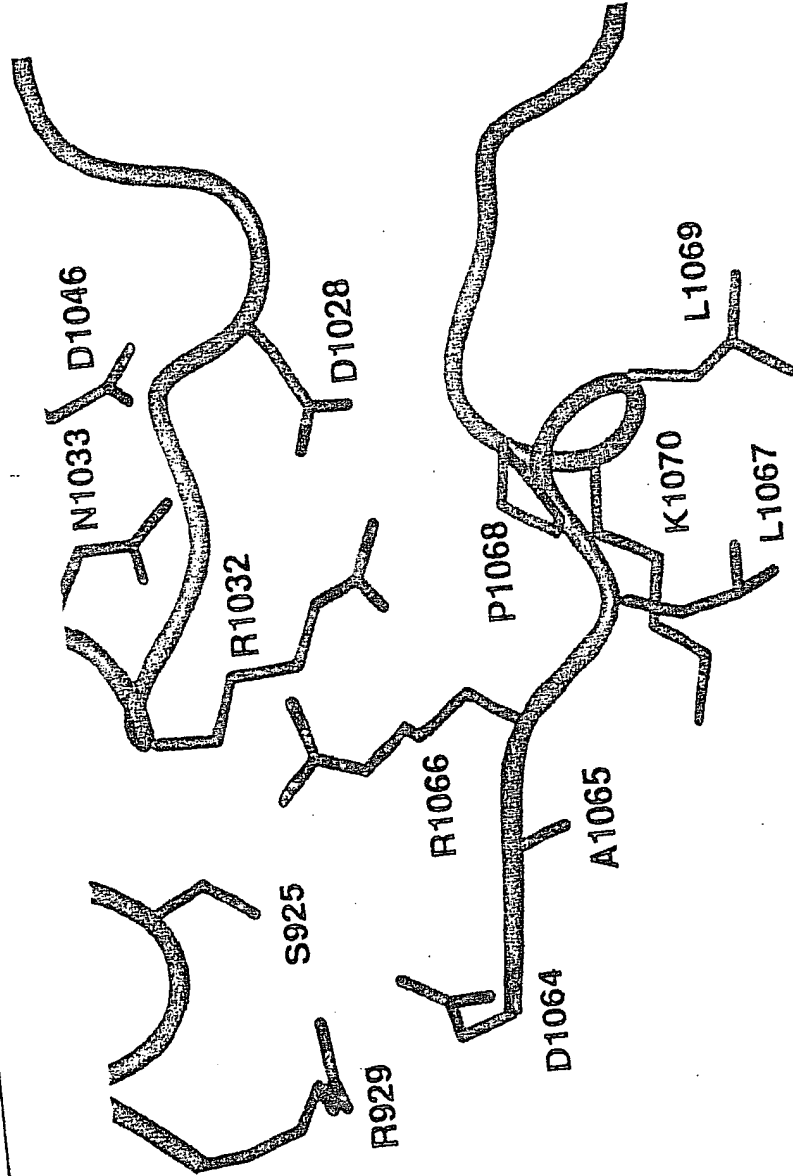
FIG. 2c



IRKP

0929833-0800

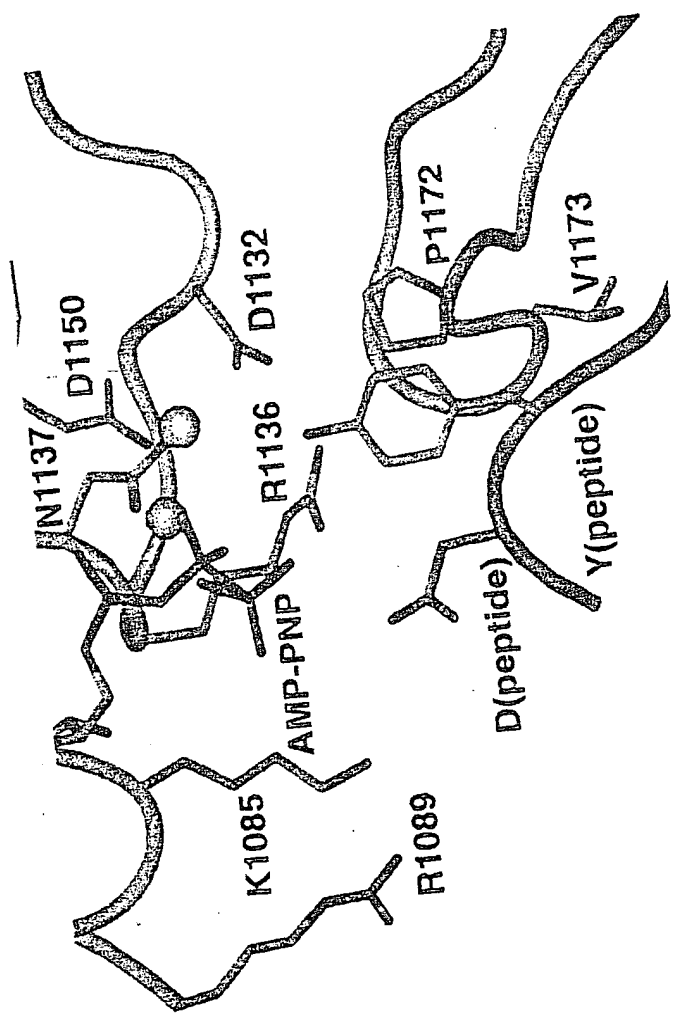
FIG. 3a



FOOOO EEEEEE

7/67

FIG. 3b



FOUO 000000

FIG. 4

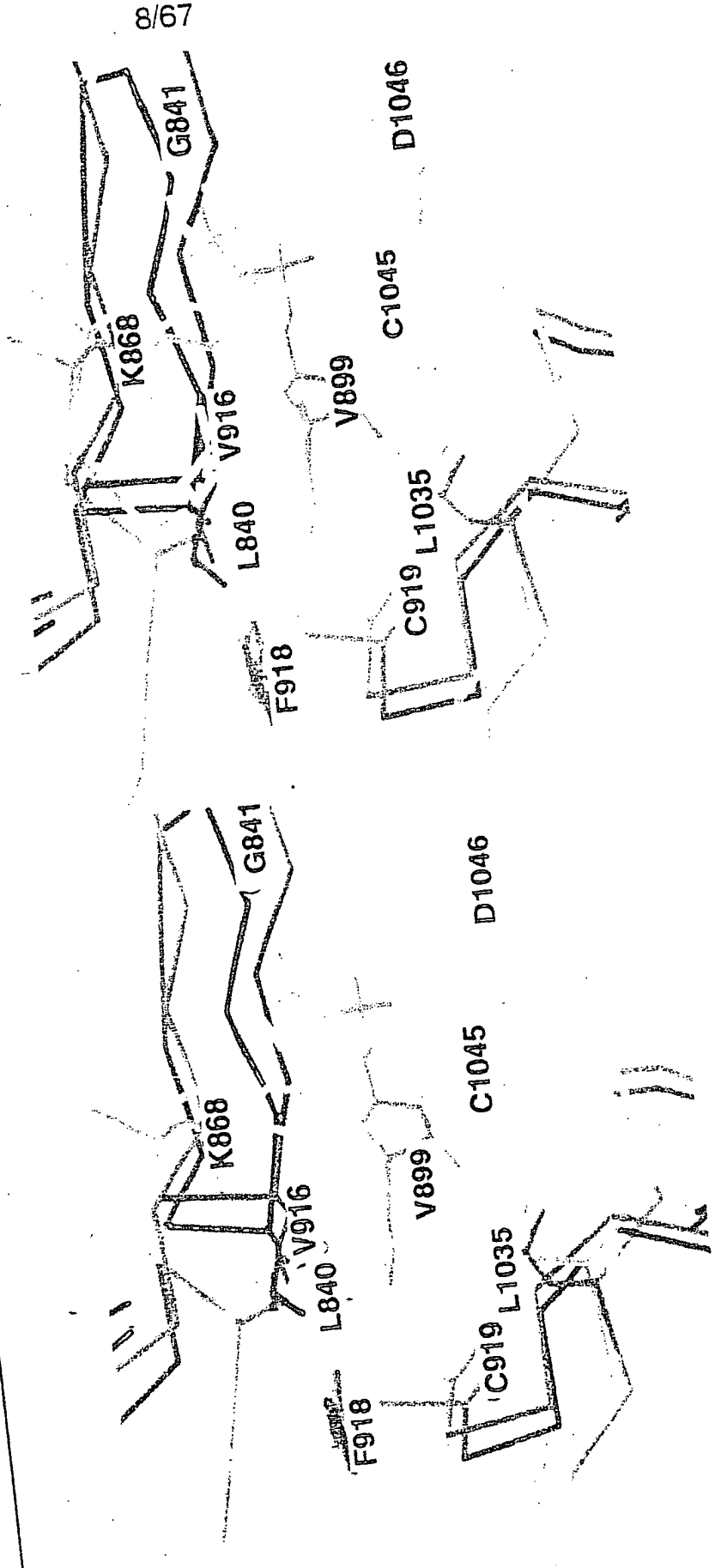


FIG. 5

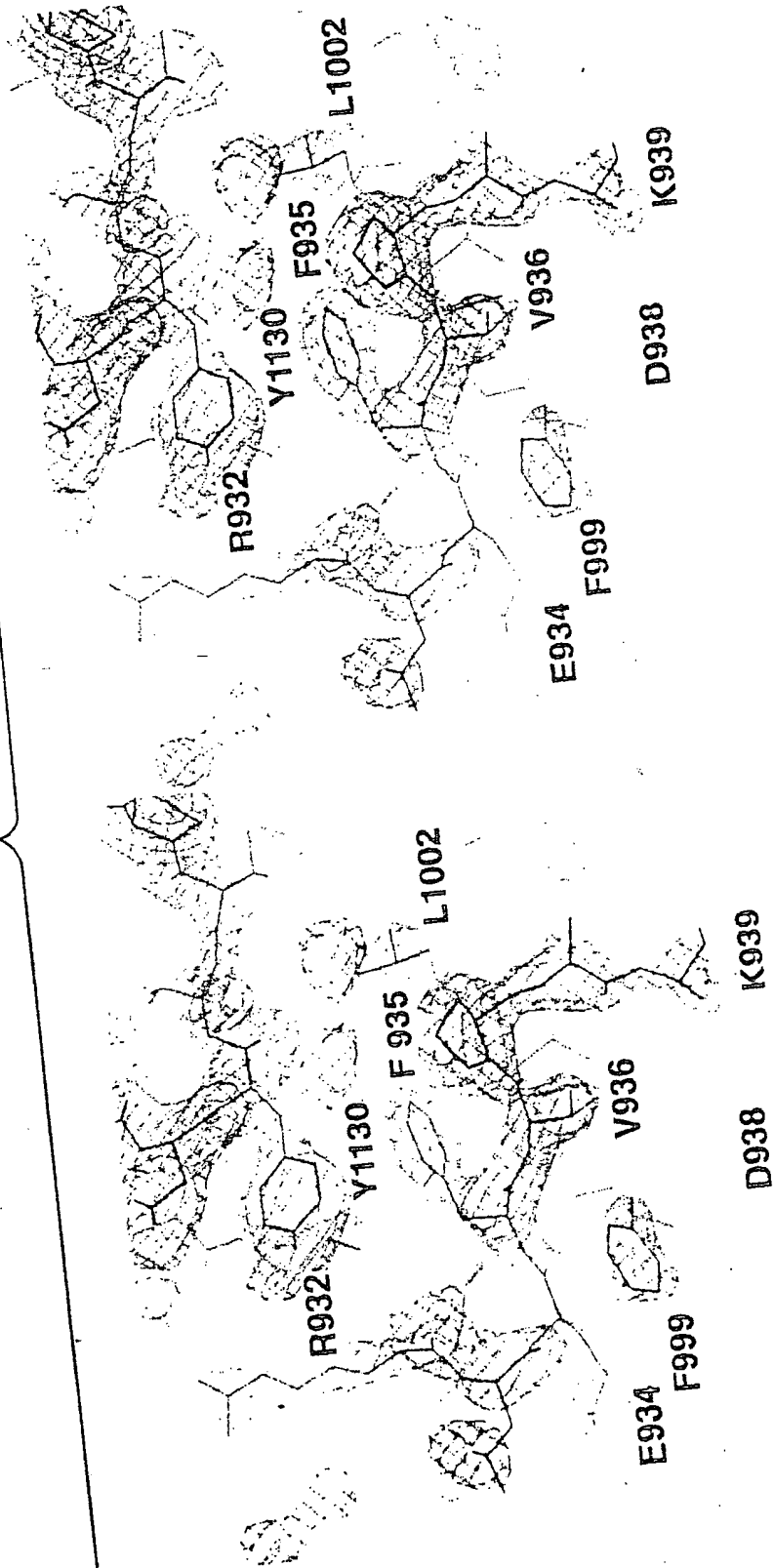


FIG. 6

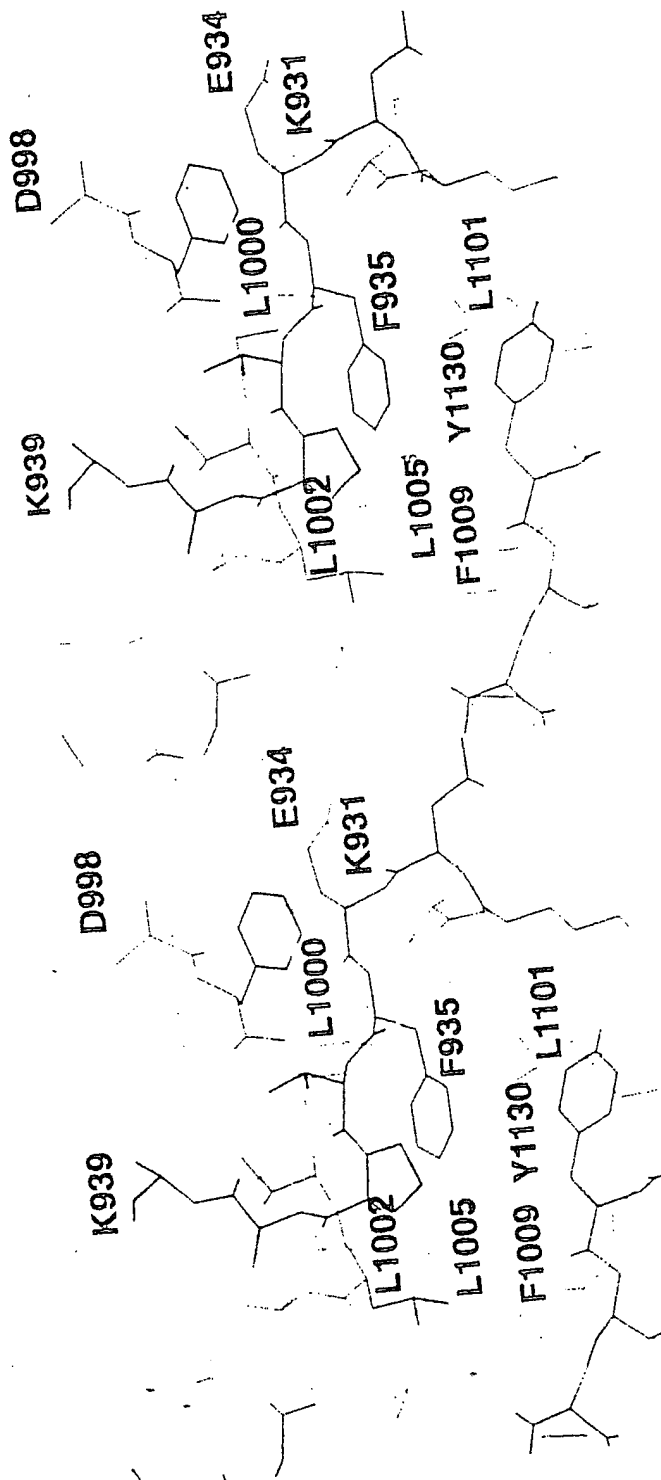


FIG. 7(2)

ATOM	48	N	SER	825	39.857	53.496	11.635	1.00	18.25
ATOM	50	CA	SER	825	39.118	53.867	10.450	1.00	12.65
ATOM	51	CB	SER	825	40.023	54.678	9.543	1.00	11.88
ATOM	52	OG	SER	825	39.315	55.003	8.370	1.00	20.94
ATOM	54	C	SER	825	38.669	52.594	9.746	1.00	12.30
ATOM	55	O	SER	825	37.543	52.461	9.317	1.00	14.94
ATOM	56	N	LYS	826	39.557	51.633	9.642	1.00	14.98
ATOM	58	CA	LYS	826	39.188	50.396	8.988	1.00	22.45
ATOM	59	CB	LYS	826	40.445	49.660	8.483	1.00	16.46
ATOM	60	CG	LYS	826	40.091	48.370	7.820	1.00	23.00
ATOM	61	CD	LYS	826	40.962	48.071	6.657	1.00	26.19
ATOM	62	CE	LYS	826	42.391	48.041	7.092	1.00	35.70
ATOM	63	NZ	LYS	826	43.272	48.003	5.891	1.00	40.17
ATOM	67	C	LYS	826	38.324	49.437	9.839	1.00	21.47
ATOM	68	O	LYS	826	37.363	48.850	9.336	1.00	22.56
ATOM	69	N	TRP	827	38.589	49.376	11.144	1.00	20.96
ATOM	71	CA	TRP	827	37.917	48.406	11.996	1.00	16.87
ATOM	72	CB	TRP	827	38.974	47.620	12.785	1.00	18.53
ATOM	73	CG	TRP	827	39.942	46.898	11.910	1.00	12.95
ATOM	74	CD2	TRP	827	39.643	45.810	11.029	1.00	9.73
ATOM	75	CE2	TRP	827	40.795	45.562	10.274	1.00	9.36
ATOM	76	CE3	TRP	827	38.505	45.038	10.801	1.00	11.54
ATOM	77	CD1	TRP	827	41.233	47.231	11.684	1.00	12.87
ATOM	78	NE1	TRP	827	41.753	46.440	10.689	1.00	10.49
ATOM	80	CZ2	TRP	827	40.848	44.565	9.299	1.00	12.36
ATOM	81	CZ3	TRP	827	38.556	44.053	9.826	1.00	10.55
ATOM	82	CH2	TRP	827	39.718	43.830	9.087	1.00	11.88
ATOM	83	C	TRP	827	36.830	48.795	12.953	1.00	17.75
ATOM	84	O	TRP	827	35.985	47.951	13.271	1.00	15.08
ATOM	85	N	GLU	828	36.855	50.043	13.416	1.00	16.92
ATOM	87	CA	GLU	828	35.908	50.518	14.413	1.00	19.52
ATOM	88	CB	GLU	828	36.289	51.920	14.885	1.00	17.10
ATOM	89	CG	GLU	828	35.581	52.363	16.148	1.00	12.70
ATOM	90	CD	GLU	828	36.106	51.707	17.400	1.00	21.57
ATOM	91	OE1	GLU	828	37.219	51.118	17.386	1.00	21.15
ATOM	92	OE2	GLU	828	35.402	51.819	18.426	1.00	22.43
ATOM	93	C	GLU	828	34.494	50.510	13.910	1.00	20.94
ATOM	94	O	GLU	828	34.245	51.024	12.818	1.00	26.92
ATOM	95	N	PHE	829	33.569	49.990	14.734	1.00	21.12
ATOM	97	CA	PHE	829	32.138	49.880	14.391	1.00	17.93
ATOM	98	CB	PHE	829	31.791	48.400	14.160	1.00	16.42
ATOM	99	CG	PHE	829	30.384	48.164	13.669	1.00	20.17

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FIG. 7(3)

ATOM	100	CD1 PHE	829	30.020	48.484	12.363	1.00	21.31
ATOM	101	CD2 PHE	829	29.415	47.612	14.516	1.00	23.04
ATOM	102	CE1 PHE	829	28.712	48.254	11.921	1.00	18.76
ATOM	103	CE2 PHE	829	28.093	47.375	14.071	1.00	15.20
ATOM	104	CZ PHE	829	27.750	47.692	12.792	1.00	17.17
ATOM	105	C PHE	829	31.310	50.495	15.533	1.00	14.65
ATOM	106	O PHE	829	31.574	50.211	16.686	1.00	16.15
ATOM	107	N PRO	830	30.270	51.298	15.224	1.00	13.29
ATOM	108	CD PRO	830	29.707	51.633	13.901	1.00	11.63
ATOM	109	CA PRO	830	29.481	51.918	16.292	1.00	14.76
ATOM	110	CB PRO	830	28.636	52.948	15.565	1.00	13.82
ATOM	111	CG PRO	830	28.414	52.364	14.252	1.00	14.42
ATOM	112	C PRO	830	28.629	51.005	17.098	1.00	19.79
ATOM	113	O PRO	830	27.750	50.339	16.562	1.00	26.60
ATOM	114	N ARG	831	28.830	51.060	18.410	1.00	18.39
ATOM	116	CA ARG	831	28.085	50.246	19.335	1.00	14.56
ATOM	117	CB ARG	831	28.469	50.580	20.743	1.00	11.53
ATOM	118	CG ARG	831	29.808	50.050	21.092	1.00	12.65
ATOM	119	CD ARG	831	30.117	50.265	22.554	1.00	12.46
ATOM	120	NE ARG	831	31.261	51.148	22.584	1.00	20.55
ATOM	122	CZ ARG	831	32.469	50.756	22.885	1.00	12.04
ATOM	123	NH1 ARG	831	32.688	49.518	23.234	1.00	23.80
ATOM	126	NH2 ARG	831	33.467	51.501	22.526	1.00	23.84
ATOM	129	C ARG	831	26.625	50.415	19.174	1.00	18.55
ATOM	130	O ARG	831	25.852	49.561	19.607	1.00	25.61
ATOM	131	N ASP	832	26.221	51.517	18.552	1.00	25.32
ATOM	133	CA ASP	832	24.794	51.734	18.354	1.00	29.47
ATOM	134	CB ASP	832	24.393	53.230	18.408	1.00	34.15
ATOM	135	CG ASP	832	24.817	54.036	17.174	1.00	33.50
ATOM	136	OD1 ASP	832	25.519	53.528	16.280	1.00	34.09
ATOM	137	OD2 ASP	832	24.422	55.216	17.110	1.00	41.48
ATOM	138	C ASP	832	24.230	51.000	17.139	1.00	27.13
ATOM	139	O ASP	832	23.023	50.905	16.991	1.00	28.08
ATOM	140	N ARG	833	25.104	50.466	16.290	1.00	24.18
ATOM	142	CA ARG	833	24.684	49.695	15.134	1.00	19.93
ATOM	143	CB ARG	833	25.661	49.902	14.011	1.00	25.94
ATOM	144	CG ARG	833	25.313	51.073	13.158	1.00	38.97
ATOM	145	CD ARG	833	25.929	50.901	11.766	1.00	53.19
ATOM	146	NE ARG	833	25.525	51.930	10.807	1.00	63.47
ATOM	148	CZ ARG	833	25.419	53.229	11.087	1.00	70.42
ATOM	149	NH1 ARG	833	25.040	54.080	10.139	1.00	74.08
ATOM	152	NH2 ARG	833	25.695	53.690	12.306	1.00	72.08
ATOM	155	C ARG	833	24.656	48.218	15.498	1.00	18.62

T08280-EE6660

FIG. 7(4)

ATOM	156	O	ARG	833	24.289	47.370	14.690	1.00	18.27
ATOM	157	N	LEU	834	25.013	47.943	16.747	1.00	18.35
ATOM	159	CA	LEU	834	25.089	46.600	17.329	1.00	22.59
ATOM	160	CB	LEU	834	26.488	46.398	17.946	1.00	25.91
ATOM	161	CG	LEU	834	27.073	45.003	18.139	1.00	24.64
ATOM	162	CD1	LEU	834	27.185	44.327	16.805	1.00	21.77
ATOM	163	CD2	LEU	834	28.428	45.085	18.785	1.00	17.43
ATOM	164	C	LEU	834	23.988	46.326	18.387	1.00	24.77
ATOM	165	O	LEU	834	23.886	46.973	19.433	1.00	24.03
ATOM	166	N	LYS	835	23.173	45.335	18.087	1.00	28.94
ATOM	168	CA	LYS	835	22.072	44.942	18.940	1.00	32.84
ATOM	169	CB	LYS	835	20.794	44.913	18.081	1.00	31.34
ATOM	170	CG	LYS	835	19.529	44.697	18.839	1.00	36.63
ATOM	171	CD	LYS	835	18.359	44.407	17.940	1.00	39.31
ATOM	172	CE	LYS	835	17.074	44.414	18.783	1.00	48.99
ATOM	173	NZ	LYS	835	17.074	43.448	19.950	1.00	48.86
ATOM	177	C	LYS	835	22.431	43.532	19.420	1.00	31.79
ATOM	178	O	LYS	835	22.408	42.609	18.616	1.00	34.57
ATOM	179	N	LEU	836	22.854	43.395	20.680	1.00	33.17
ATOM	181	CA	LEU	836	23.229	42.101	21.277	1.00	34.01
ATOM	182	CB	LEU	836	23.970	42.292	22.593	1.00	33.96
ATOM	183	CG	LEU	836	25.400	42.796	22.462	1.00	42.50
ATOM	184	CD1	LEU	836	26.082	42.858	23.854	1.00	41.15
ATOM	185	CD2	LEU	836	26.153	41.860	21.501	1.00	40.93
ATOM	186	C	LEU	836	22.053	41.181	21.547	1.00	33.27
ATOM	187	O	LEU	836	21.017	41.631	22.025	1.00	31.15
ATOM	188	N	GLY	837	22.268	39.882	21.330	1.00	36.34
ATOM	190	CA	GLY	837	21.228	38.881	21.536	1.00	34.95
ATOM	191	C	GLY	837	21.603	37.761	22.497	1.00	35.64
ATOM	192	O	GLY	837	22.203	37.980	23.554	1.00	39.23
ATOM	193	N	LYS	838	21.254	36.541	22.126	1.00	35.31
ATOM	195	CA	LYS	838	21.531	35.375	22.962	1.00	37.86
ATOM	196	CB	LYS	838	20.647	34.192	22.539	1.00	41.52
ATOM	197	C	LYS	838	22.991	34.935	22.989	1.00	35.93
ATOM	198	O	LYS	838	23.650	34.851	21.946	1.00	34.37
ATOM	199	N	PRO	839	23.499	34.608	24.187	1.00	33.68
ATOM	200	CD	PRO	839	22.820	34.757	25.486	1.00	34.48
ATOM	201	CA	PRO	839	24.880	34.158	24.363	1.00	37.11
ATOM	202	CB	PRO	839	24.927	33.750	25.833	1.00	37.46
ATOM	203	CG	PRO	839	23.970	34.710	26.472	1.00	37.04
ATOM	204	C	PRO	839	25.148	32.963	23.474	1.00	39.09
ATOM	205	O	PRO	839	24.303	32.085	23.327	1.00	38.13
ATOM	206	N	LEU	840	26.261	33.013	22.767	1.00	43.08

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FIG. 7(5)

ATOM	208	CA	LEU	840	26.646	31.915	21.917	1.00	47.73
ATOM	209	CB	LEU	840	27.396	32.426	20.692	1.00	41.83
ATOM	210	CG	LEU	840	26.386	32.957	19.697	1.00	39.60
ATOM	211	CD1	LEU	840	27.080	33.697	18.595	1.00	42.69
ATOM	212	CD2	LEU	840	25.582	31.795	19.156	1.00	38.40
ATOM	213	C	LEU	840	27.523	30.987	22.747	1.00	54.84
ATOM	214	O	LEU	840	27.479	29.768	22.577	1.00	59.76
ATOM	215	N	GLY	841	28.248	31.563	23.706	1.00	60.51
ATOM	217	CA	GLY	841	29.140	30.781	24.547	1.00	60.96
ATOM	218	C	GLY	841	29.660	31.544	25.750	1.00	63.95
ATOM	219	O	GLY	841	29.497	32.764	25.857	1.00	64.35
ATOM	220	N	ARG	842	30.279	30.809	26.668	1.00	65.26
ATOM	222	CA	ARG	842	30.823	31.388	27.887	1.00	65.12
ATOM	223	CB	ARG	842	30.027	30.897	29.091	1.00	61.50
ATOM	224	C	ARG	842	32.300	30.995	28.004	1.00	64.23
ATOM	225	O	ARG	842	32.957	30.720	26.986	1.00	68.80
ATOM	226	N	GLY	843	32.822	31.003	29.226	1.00	60.14
ATOM	228	CA	GLY	843	34.206	30.639	29.453	1.00	60.53
ATOM	229	C	GLY	843	34.676	31.165	30.789	1.00	62.56
ATOM	230	O	GLY	843	33.902	31.764	31.535	1.00	61.31
ATOM	231	N	ALA	844	35.925	30.888	31.140	1.00	66.30
ATOM	233	CA	ALA	844	36.450	31.390	32.403	1.00	69.69
ATOM	234	CB	ALA	844	37.655	30.574	32.851	1.00	68.47
ATOM	235	C	ALA	844	36.839	32.855	32.212	1.00	73.15
ATOM	236	O	ALA	844	36.723	33.667	33.144	1.00	75.00
ATOM	237	N	PHE	845	37.251	33.184	30.981	1.00	76.12
ATOM	239	CA	PHE	845	37.699	34.538	30.618	1.00	74.99
ATOM	240	CB	PHE	845	39.135	34.479	30.014	1.00	72.01
ATOM	241	C	PHE	845	36.766	35.353	29.700	1.00	73.81
ATOM	242	O	PHE	845	36.404	36.499	30.020	1.00	76.82
ATOM	243	N	GLY	846	36.368	34.767	28.576	1.00	68.48
ATOM	245	CA	GLY	846	35.527	35.495	27.645	1.00	61.76
ATOM	246	C	GLY	846	34.102	35.023	27.606	1.00	57.98
ATOM	247	O	GLY	846	33.658	34.305	28.491	1.00	59.43
ATOM	248	N	GLN	847	33.400	35.413	26.553	1.00	55.08
ATOM	250	CA	GLN	847	32.006	35.050	26.354	1.00	52.26
ATOM	251	CB	GLN	847	31.160	35.668	27.449	1.00	55.14
ATOM	252	CG	GLN	847	29.706	35.703	27.075	1.00	61.40
ATOM	253	CD	GLN	847	28.951	36.735	27.844	1.00	65.75
ATOM	254	OE1	GLN	847	27.772	36.543	28.150	1.00	69.74
ATOM	255	NE2	GLN	847	29.614	37.852	28.166	1.00	68.83
ATOM	258	C	GLN	847	31.508	35.573	25.001	1.00	47.29
ATOM	259	O	GLN	847	31.637	36.764	24.713	1.00	52.89

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FIG. 7(7)

ATOM	310	CA	PHE	854	23.529	47.059	10.680	1.00	16.46
ATOM	311	CB	PHE	854	22.487	48.135	10.901	1.00	23.71
ATOM	312	CG	PHE	854	22.020	48.758	9.643	1.00	27.62
ATOM	313	CD1	PHE	854	22.476	50.011	9.266	1.00	28.26
ATOM	314	CD2	PHE	854	21.205	48.052	8.771	1.00	31.56
ATOM	315	CE1	PHE	854	22.136	50.549	8.025	1.00	30.16
ATOM	316	CE2	PHE	854	20.856	48.592	7.512	1.00	34.04
ATOM	317	CZ	PHE	854	21.328	49.838	7.145	1.00	28.32
ATOM	318	C	PHE	854	24.618	47.569	9.794	1.00	14.10
ATOM	319	O	PHE	854	25.493	48.299	10.209	1.00	17.34
ATOM	320	N	GLY	855	24.556	47.163	8.553	1.00	17.45
ATOM	322	CA	GLY	855	25.559	47.571	7.604	1.00	18.50
ATOM	323	C	GLY	855	26.988	47.318	8.020	1.00	22.65
ATOM	324	O	GLY	855	27.806	48.193	7.777	1.00	26.82
ATOM	325	N	ILE	856	27.332	46.150	8.580	1.00	23.51
ATOM	327	CA	ILE	856	28.740	45.886	8.983	1.00	24.11
ATOM	328	CB	ILE	856	28.868	44.692	9.980	1.00	27.72
ATOM	329	CG2	ILE	856	28.535	43.370	9.259	1.00	29.88
ATOM	330	CG1	ILE	856	30.282	44.663	10.608	1.00	23.26
ATOM	331	CD1	ILE	856	30.371	44.079	12.034	1.00	21.70
ATOM	332	C	ILE	856	29.704	45.665	7.805	1.00	24.83
ATOM	333	O	ILE	856	30.918	45.721	7.950	1.00	28.37
ATOM	334	N	ASP	857	29.145	45.460	6.626	1.00	27.69
ATOM	336	CA	ASP	857	29.926	45.248	5.420	1.00	31.23
ATOM	337	CB	ASP	857	29.566	43.891	4.838	1.00	34.80
ATOM	338	CG	ASP	857	28.074	43.658	4.811	1.00	40.03
ATOM	339	OD1	ASP	857	27.328	44.597	4.448	1.00	43.33
ATOM	340	OD2	ASP	857	27.641	42.549	5.200	1.00	46.87
ATOM	341	C	ASP	857	29.654	46.323	4.370	1.00	32.81
ATOM	342	O	ASP	857	29.721	46.040	3.183	1.00	38.59
ATOM	343	N	LYS	858	29.299	47.529	4.813	1.00	34.74
ATOM	345	CA	LYS	858	28.987	48.690	3.946	1.00	34.64
ATOM	346	CB	LYS	858	30.061	48.947	2.889	1.00	31.38
ATOM	347	CG	LYS	858	31.462	48.964	3.418	1.00	34.36
ATOM	348	CD	LYS	858	31.605	49.890	4.603	1.00	39.41
ATOM	349	CE	LYS	858	33.005	49.791	5.228	1.00	39.87
ATOM	350	NZ	LYS	858	34.059	50.089	4.218	1.00	39.89
ATOM	354	C	LYS	858	27.629	48.709	3.254	1.00	32.27
ATOM	355	O	LYS	858	27.249	49.737	2.724	1.00	35.02
ATOM	356	N	THR	859	26.891	47.607	3.258	1.00	32.20
ATOM	358	CA	THR	859	25.597	47.610	2.600	1.00	30.11
ATOM	359	CB	THR	859	25.355	46.332	1.785	1.00	30.38
ATOM	360	OG1	THR	859	25.365	45.187	2.641	1.00	32.29

FOOOO = EEEEOO

FIG. 7(8)

ATOM	362	CG2 THR	859	26.437	46.179	0.757	1.00	32.22
ATOM	363	C THR	859	24.450	47.839	3.546	1.00	28.71
ATOM	364	O THR	859	24.577	47.647	4.750	1.00	30.55
ATOM	365	N ALA	860	23.303	48.201	2.989	1.00	30.07
ATOM	367	CA ALA	860	22.123	48.474	3.784	1.00	28.01
ATOM	368	CB ALA	860	21.141	49.253	2.928	1.00	23.78
ATOM	369	C ALA	860	21.461	47.222	4.394	1.00	28.00
ATOM	370	O ALA	860	20.251	47.100	4.373	1.00	31.77
ATOM	371	N THR	861	22.228	46.325	5.008	1.00	29.99
ATOM	373	CA THR	861	21.663	45.078	5.577	1.00	27.77
ATOM	374	CB THR	861	22.186	43.857	4.808	1.00	20.97
ATOM	375	OG1 THR	861	23.614	43.926	4.687	1.00	27.23
ATOM	377	CG2 THR	861	21.608	43.794	3.449	1.00	29.39
ATOM	378	C THR	861	21.986	44.790	7.055	1.00	31.89
ATOM	379	O THR	861	23.095	45.077	7.532	1.00	34.73
ATOM	380	N CYS	862	21.037	44.183	7.770	1.00	34.09
ATOM	382	CA CYS	862	21.250	43.805	9.178	1.00	31.63
ATOM	383	CB CYS	862	19.922	43.756	9.943	1.00	27.50
ATOM	384	SG CYS	862	19.863	44.908	11.327	1.00	41.79
ATOM	385	C CYS	862	21.876	42.424	9.146	1.00	25.51
ATOM	386	O CYS	862	21.241	41.492	8.700	1.00	30.38
ATOM	387	N ARG	863	23.136	42.307	9.541	1.00	27.68
ATOM	389	CA ARG	863	23.839	41.025	9.532	1.00	28.29
ATOM	390	CB ARG	863	25.211	41.210	8.882	1.00	36.18
ATOM	391	CG ARG	863	25.775	39.945	8.275	1.00	48.71
ATOM	392	CD ARG	863	27.282	40.034	7.943	1.00	58.46
ATOM	393	NE ARG	863	27.824	38.721	7.550	1.00	65.04
ATOM	395	CZ ARG	863	29.112	38.452	7.330	1.00	65.66
ATOM	396	NH1 ARG	863	29.482	37.219	6.985	1.00	67.60
ATOM	399	NH2 ARG	863	30.030	39.409	7.421	1.00	66.49
ATOM	402	C ARG	863	24.006	40.409	10.943	1.00	28.34
ATOM	403	O ARG	863	24.337	41.125	11.904	1.00	24.64
ATOM	404	N THR	864	23.735	39.100	11.078	1.00	23.23
ATOM	406	CA THR	864	23.900	38.426	12.364	1.00	18.91
ATOM	407	CB THR	864	23.062	37.099	12.489	1.00	19.40
ATOM	408	OG1 THR	864	21.672	37.435	12.547	1.00	24.20
ATOM	410	CG2 THR	864	23.371	36.351	13.793	1.00	8.83
ATOM	411	C THR	864	25.385	38.148	12.462	1.00	20.93
ATOM	412	O THR	864	26.001	37.736	11.468	1.00	20.14
ATOM	413	N VAL	865	25.962	38.442	13.634	1.00	16.03
ATOM	415	CA VAL	865	27.381	38.254	13.897	1.00	16.69
ATOM	416	CB VAL	865	28.175	39.620	13.906	1.00	17.70
ATOM	417	CG1 VAL	865	28.107	40.299	12.539	1.00	21.22

FOXP2-202303

FIG. 7(9)

ATOM	418	CG2 VAL	865	27.625	40.554	14.979	1.00	20.92
ATOM	419	C VAL	865	27.533	37.660	15.276	1.00	15.90
ATOM	420	O VAL	865	26.552	37.554	15.995	1.00	16.43
ATOM	421	N ALA	866	28.775	37.295	15.612	1.00	16.37
ATOM	423	CA ALA	866	29.210	36.753	16.910	1.00	18.08
ATOM	424	CB ALA	866	30.022	35.490	16.691	1.00	7.41
ATOM	425	C ALA	866	30.117	37.834	17.588	1.00	23.87
ATOM	426	O ALA	866	31.121	38.261	16.998	1.00	24.17
ATOM	427	N VAL	867	29.790	38.235	18.827	1.00	26.69
ATOM	429	CA VAL	867	30.534	39.268	19.554	1.00	20.37
ATOM	430	CB VAL	867	29.592	40.365	20.088	1.00	17.71
ATOM	431	CG1 VAL	867	30.361	41.586	20.519	1.00	9.32
ATOM	432	CG2 VAL	867	28.635	40.753	19.027	1.00	14.57
ATOM	433	C VAL	867	31.320	38.748	20.728	1.00	21.67
ATOM	434	O VAL	867	30.784	38.085	21.606	1.00	23.57
ATOM	435	N LYS	868	32.616	38.982	20.694	1.00	21.65
ATOM	437	CA LYS	868	33.471	38.593	21.782	1.00	27.02
ATOM	438	CB LYS	868	34.860	38.169	21.289	1.00	29.71
ATOM	439	CG LYS	868	34.842	36.963	20.405	1.00	37.08
ATOM	440	CD LYS	868	36.151	36.810	19.666	1.00	44.81
ATOM	441	CE LYS	868	36.183	35.512	18.868	1.00	45.52
ATOM	442	NZ LYS	868	37.548	35.298	18.274	1.00	47.28
ATOM	446	C LYS	868	33.585	39.842	22.647	1.00	26.11
ATOM	447	O LYS	868	33.962	40.914	22.188	1.00	24.72
ATOM	448	N MET	869	33.184	39.721	23.888	1.00	29.77
ATOM	450	CA MET	869	33.299	40.821	24.803	1.00	32.95
ATOM	451	CB MET	869	31.958	41.491	24.996	1.00	30.57
ATOM	452	CG MET	869	30.900	40.542	25.463	1.00	32.29
ATOM	453	SD MET	869	29.348	41.157	24.961	1.00	42.68
ATOM	454	CE MET	869	29.251	42.663	25.919	1.00	35.32
ATOM	455	C MET	869	33.778	40.205	26.095	1.00	40.29
ATOM	456	O MET	869	33.921	38.967	26.216	1.00	35.26
ATOM	457	N LEU	870	34.079	41.066	27.051	1.00	46.88
ATOM	459	CA LEU	870	34.521	40.576	28.337	1.00	51.36
ATOM	460	CB LEU	870	35.544	41.549	28.937	1.00	48.55
ATOM	461	CG LEU	870	36.862	41.677	28.180	1.00	44.32
ATOM	462	CD1 LEU	870	37.734	42.739	28.855	1.00	36.89
ATOM	463	CD2 LEU	870	37.535	40.306	28.149	1.00	41.04
ATOM	464	C LEU	870	33.344	40.306	29.311	1.00	53.63
ATOM	465	O LEU	870	32.163	40.615	29.037	1.00	52.68
ATOM	466	N LYS	871	33.675	39.644	30.412	1.00	56.89
ATOM	468	CA LYS	871	32.695	39.346	31.426	1.00	58.53
ATOM	469	CB LYS	871	33.083	38.077	32.169	1.00	59.89

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FIG. 7(10)

ATOM	470	CG	LYS	871	31.903	37.220	32.546	1.00	63.81
ATOM	471	CD	LYS	871	31.912	35.965	31.719	1.00	65.43
ATOM	472	CE	LYS	871	33.268	35.318	31.853	1.00	70.59
ATOM	473	NZ	LYS	871	33.318	34.051	31.135	1.00	76.57
ATOM	477	C	LYS	871	32.649	40.518	32.404	1.00	59.44
ATOM	478	O	LYS	871	33.582	41.342	32.464	1.00	56.75
ATOM	479	N	GLU	872	31.566	40.571	33.177	1.00	61.50
ATOM	481	CA	GLU	872	31.357	41.618	34.177	1.00	64.12
ATOM	482	CB	GLU	872	29.928	41.539	34.739	1.00	66.85
ATOM	483	CG	GLU	872	28.846	41.903	33.729	1.00	71.27
ATOM	484	CD	GLU	872	29.060	41.218	32.387	1.00	74.41
ATOM	485	OE1	GLU	872	28.900	39.980	32.326	1.00	76.27
ATOM	486	OE2	GLU	872	29.443	41.903	31.411	1.00	74.20
ATOM	487	C	GLU	872	32.387	41.424	35.288	1.00	60.87
ATOM	488	O	GLU	872	32.331	40.441	36.026	1.00	61.34
ATOM	489	N	GLY	873	33.368	42.319	35.335	1.00	57.40
ATOM	491	CA	GLY	873	34.408	42.223	36.337	1.00	53.93
ATOM	492	C	GLY	873	35.703	41.641	35.803	1.00	52.30
ATOM	493	O	GLY	873	36.518	41.103	36.563	1.00	51.95
ATOM	494	N	ALA	874	35.881	41.721	34.491	1.00	51.13
ATOM	496	CA	ALA	874	37.090	41.217	33.862	1.00	51.21
ATOM	497	CB	ALA	874	36.875	41.049	32.335	1.00	48.57
ATOM	498	C	ALA	874	38.270	42.172	34.199	1.00	50.40
ATOM	499	O	ALA	874	38.101	43.388	34.369	1.00	48.57
ATOM	500	N	THR	875	39.465	41.609	34.245	1.00	48.33
ATOM	502	CA	THR	875	40.657	42.334	34.617	1.00	51.59
ATOM	503	CB	THR	875	41.572	41.428	35.447	1.00	54.42
ATOM	504	OG1	THR	875	42.677	42.184	35.937	1.00	60.69
ATOM	506	CG2	THR	875	42.107	40.280	34.593	1.00	60.52
ATOM	507	C	THR	875	41.455	42.830	33.448	1.00	51.15
ATOM	508	O	THR	875	41.395	42.263	32.372	1.00	52.26
ATOM	509	N	HIS	876	42.343	43.770	33.733	1.00	53.93
ATOM	511	CA	HIS	876	43.215	44.392	32.737	1.00	55.68
ATOM	512	CB	HIS	876	44.170	45.383	33.419	1.00	54.06
ATOM	513	CG	HIS	876	45.609	44.980	33.361	1.00	56.52
ATOM	514	CD2	HIS	876	46.595	45.314	32.487	1.00	56.83
ATOM	515	ND1	HIS	876	46.191	44.149	34.297	1.00	60.22
ATOM	517	CE1	HIS	876	47.472	43.992	34.009	1.00	62.12
ATOM	518	NE2	HIS	876	47.739	44.689	32.916	1.00	59.66
ATOM	520	C	HIS	876	44.003	43.385	31.898	1.00	54.72
ATOM	521	O	HIS	876	44.510	43.712	30.810	1.00	54.08
ATOM	522	N	SER	877	44.167	42.189	32.434	1.00	52.07
ATOM	524	CA	SER	877	44.872	41.160	31.704	1.00	53.73

T03030 = EEB0660

FIG. 7(11)

ATOM	525	CB	SER	877	45.622	40.256	32.669	1.00	57.58
ATOM	526	OG	SER	877	46.559	41.054	33.379	1.00	63.62
ATOM	528	C	SER	877	43.880	40.410	30.810	1.00	51.29
ATOM	529	O	SER	877	44.227	39.962	29.715	1.00	50.11
ATOM	530	N	GLU	878	42.629	40.320	31.246	1.00	47.72
ATOM	532	CA	GLU	878	41.620	39.696	30.410	1.00	45.39
ATOM	533	CB	GLU	878	40.335	39.483	31.201	1.00	48.19
ATOM	534	CG	GLU	878	40.383	38.191	32.013	1.00	60.86
ATOM	535	CD	GLU	878	39.304	38.086	33.092	1.00	68.27
ATOM	536	OE1	GLU	878	38.448	37.162	33.027	1.00	70.85
ATOM	537	OE2	GLU	878	39.336	38.911	34.029	1.00	67.92
ATOM	538	C	GLU	878	41.448	40.702	29.277	1.00	40.09
ATOM	539	O	GLU	878	41.536	40.365	28.104	1.00	38.92
ATOM	540	N	HIS	879	41.393	41.966	29.659	1.00	34.60
ATOM	542	CA	HIS	879	41.252	43.072	28.732	1.00	36.68
ATOM	543	CB	HIS	879	41.070	44.392	29.505	1.00	44.03
ATOM	544	CG	HIS	879	40.637	45.547	28.652	1.00	43.54
ATOM	545	CD2	HIS	879	39.403	46.025	28.364	1.00	40.08
ATOM	546	ND1	HIS	879	41.529	46.307	27.917	1.00	39.08
ATOM	548	CE1	HIS	879	40.860	47.192	27.202	1.00	40.82
ATOM	549	NE2	HIS	879	39.572	47.045	27.452	1.00	49.01
ATOM	551	C	HIS	879	42.455	43.172	27.797	1.00	34.17
ATOM	552	O	HIS	879	42.293	43.494	26.626	1.00	33.65
ATOM	553	N	ARG	880	43.664	42.993	28.319	1.00	33.25
ATOM	555	CA	ARG	880	44.838	43.033	27.470	1.00	29.84
ATOM	556	CB	ARG	880	46.124	42.932	28.299	1.00	36.53
ATOM	557	CG	ARG	880	46.615	41.470	28.452	1.00	50.57
ATOM	558	CD	ARG	880	48.121	41.276	28.649	1.00	56.95
ATOM	559	NE	ARG	880	48.555	41.748	29.960	1.00	63.99
ATOM	561	CZ	ARG	880	49.030	42.967	30.175	1.00	66.67
ATOM	562	NH1	ARG	880	49.391	43.327	31.397	1.00	66.45
ATOM	565	NH2	ARG	880	49.170	43.813	29.157	1.00	66.52
ATOM	568	C	ARG	880	44.741	41.799	26.533	1.00	29.72
ATOM	569	O	ARG	880	45.246	41.808	25.401	1.00	21.81
ATOM	570	N	ALA	881	44.070	40.747	27.006	1.00	28.49
ATOM	572	CA	ALA	881	43.942	39.514	26.227	1.00	31.72
ATOM	573	CB	ALA	881	43.587	38.342	27.142	1.00	31.57
ATOM	574	C	ALA	881	42.978	39.592	25.044	1.00	29.98
ATOM	575	O	ALA	881	43.319	39.154	23.944	1.00	31.95
ATOM	576	N	LEU	882	41.766	40.099	25.273	1.00	27.12
ATOM	578	CA	LEU	882	40.804	40.248	24.193	1.00	27.43
ATOM	579	CB	LEU	882	39.493	40.784	24.728	1.00	23.93
ATOM	580	CG	LEU	882	38.402	40.925	23.662	1.00	25.91

T03E30 EEBE660

FIG. (12)

ATOM	581	CD1	LEU	882	38.435	39.722	22.743	1.00	21.91
ATOM	582	CD2	LEU	882	37.013	41.102	24.325	1.00	23.61
ATOM	583	C	LEU	882	41.368	41.230	23.151	1.00	30.62
ATOM	584	O	LEU	882	41.312	40.982	21.945	1.00	27.61
ATOM	585	N	MET	883	41.940	42.325	23.643	1.00	29.74
ATOM	587	CA	MET	883	42.548	43.364	22.808	1.00	30.75
ATOM	588	CB	MET	883	43.001	44.516	23.738	1.00	27.47
ATOM	589	CG	MET	883	43.432	45.828	23.084	1.00	33.64
ATOM	590	SD	MET	883	42.313	46.592	21.882	1.00	33.18
ATOM	591	CE	MET	883	41.031	47.285	22.943	1.00	33.54
ATOM	592	C	MET	883	43.711	42.756	21.965	1.00	29.92
ATOM	593	O	MET	883	43.862	43.022	20.766	1.00	28.38
ATOM	594	N	SER	884	44.501	41.893	22.588	1.00	29.75
ATOM	596	CA	SER	884	45.597	41.231	21.912	1.00	28.29
ATOM	597	CB	SER	884	46.343	40.391	22.923	1.00	32.03
ATOM	598	OG	SER	884	47.220	39.502	22.270	1.00	44.59
ATOM	600	C	SER	884	45.091	40.329	20.778	1.00	29.39
ATOM	601	O	SER	884	45.595	40.359	19.654	1.00	28.92
ATOM	602	N	GLU	885	44.084	39.526	21.071	1.00	25.33
ATOM	604	CA	GLU	885	43.559	38.661	20.058	1.00	27.47
ATOM	605	CB	GLU	885	42.563	37.692	20.661	1.00	31.61
ATOM	606	CG	GLU	885	41.142	38.108	20.642	1.00	46.01
ATOM	607	CD	GLU	885	40.215	36.903	20.799	1.00	55.19
ATOM	608	OE1	GLU	885	40.018	36.469	21.964	1.00	58.80
ATOM	609	OE2	GLU	885	39.715	36.379	19.762	1.00	54.01
ATOM	610	C	GLU	885	42.945	39.470	18.924	1.00	28.59
ATOM	611	O	GLU	885	42.833	38.983	17.805	1.00	26.67
ATOM	612	N	LEU	886	42.560	40.712	19.211	1.00	27.06
ATOM	614	CA	LEU	886	41.994	41.594	18.205	1.00	23.75
ATOM	615	CB	LEU	886	41.483	42.887	18.847	1.00	22.79
ATOM	616	CG	LEU	886	41.122	44.033	17.905	1.00	17.60
ATOM	617	CD1	LEU	886	39.981	43.608	16.999	1.00	11.98
ATOM	618	CD2	LEU	886	40.747	45.285	18.702	1.00	18.31
ATOM	619	C	LEU	886	43.049	41.936	17.147	1.00	24.77
ATOM	620	O	LEU	886	42.767	41.880	15.939	1.00	22.15
ATOM	621	N	LYS	887	44.265	42.246	17.602	1.00	25.08
ATOM	623	CA	LYS	887	45.384	42.613	16.722	1.00	24.94
ATOM	624	CB	LYS	887	46.517	43.227	17.544	1.00	29.70
ATOM	625	CG	LYS	887	46.105	44.304	18.560	1.00	30.67
ATOM	626	CD	LYS	887	45.556	45.551	17.895	1.00	28.99
ATOM	627	CE	LYS	887	45.170	46.645	18.923	1.00	26.07
ATOM	628	NZ	LYS	887	46.354	47.216	19.621	1.00	17.59
ATOM	632	C	LYS	887	45.921	41.407	15.925	1.00	25.59

FOCUS: EEBE660

FIG. 7(17)

ATOM	841	C	PRO	911	33.340	47.118	25.234	1.00	22.33
ATOM	842	O	PRO	911	32.903	47.366	24.124	1.00	23.57
ATOM	843	N	LEU	912	34.548	46.581	25.430	1.00	22.75
ATOM	845	CA	LEU	912	35.412	46.177	24.308	1.00	23.22
ATOM	846	CB	LEU	912	36.778	45.685	24.812	1.00	23.67
ATOM	847	CG	LEU	912	38.095	45.759	24.005	1.00	24.34
ATOM	848	CD1	LEU	912	38.988	44.618	24.490	1.00	20.11
ATOM	849	CD2	LEU	912	37.906	45.745	22.477	1.00	12.72
ATOM	850	C	LEU	912	34.692	45.010	23.627	1.00	22.56
ATOM	851	O	LEU	912	34.342	44.029	24.283	1.00	17.69
ATOM	852	N	MET	913	34.417	45.142	22.334	1.00	24.19
ATOM	854	CA	MET	913	33.724	44.085	21.617	1.00	21.51
ATOM	855	CB	MET	913	32.264	44.456	21.429	1.00	22.09
ATOM	856	CG	MET	913	31.489	44.461	22.728	1.00	22.26
ATOM	857	SD	MET	913	29.829	45.009	22.484	1.00	24.17
ATOM	858	CE	MET	913	30.127	46.676	22.205	1.00	20.40
ATOM	859	C	MET	913	34.386	43.768	20.295	1.00	20.42
ATOM	860	O	MET	913	34.701	44.657	19.519	1.00	21.08
ATOM	861	N	VAL	914	34.703	42.491	20.102	1.00	23.72
ATOM	863	CA	VAL	914	35.354	42.001	18.891	1.00	20.24
ATOM	864	CB	VAL	914	36.614	41.170	19.232	1.00	16.92
ATOM	865	CG1	VAL	914	37.254	40.637	17.958	1.00	19.36
ATOM	866	CG2	VAL	914	37.629	42.055	19.972	1.00	13.30
ATOM	867	C	VAL	914	34.296	41.210	18.132	1.00	19.70
ATOM	868	O	VAL	914	33.836	40.191	18.587	1.00	26.45
ATOM	869	N	ILE	915	33.844	41.775	17.026	1.00	19.86
ATOM	871	CA	ILE	915	32.806	41.212	16.179	1.00	20.42
ATOM	872	CB	ILE	915	32.034	42.384	15.455	1.00	18.44
ATOM	873	CG2	ILE	915	30.721	41.909	14.869	1.00	12.35
ATOM	874	CG1	ILE	915	31.756	43.531	16.426	1.00	17.60
ATOM	875	CD1	ILE	915	31.358	44.822	15.735	1.00	15.14
ATOM	876	C	ILE	915	33.457	40.287	15.115	1.00	23.98
ATOM	877	O	ILE	915	34.361	40.722	14.373	1.00	23.30
ATOM	878	N	VAL	916	33.054	39.011	15.075	1.00	20.08
ATOM	880	CA	VAL	916	33.594	38.089	14.077	1.00	17.64
ATOM	881	CB	VAL	916	34.543	37.003	14.680	1.00	9.09
ATOM	882	CG1	VAL	916	35.703	37.685	15.350	1.00	5.05
ATOM	883	CG2	VAL	916	33.817	36.126	15.678	1.00	10.26
ATOM	884	C	VAL	916	32.422	37.486	13.342	1.00	17.74
ATOM	885	O	VAL	916	31.275	37.790	13.664	1.00	20.02
ATOM	886	N	GLU	917	32.684	36.702	12.303	1.00	14.74
ATOM	888	CA	GLU	917	31.589	36.073	11.577	1.00	13.03
ATOM	889	CB	GLU	917	32.120	35.409	10.332	1.00	14.06

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FIG. 7(18)

ATOM	890	CG	GLU	917	32.946	36.348	9.464	1.00	24.11
ATOM	891	CD	GLU	917	33.543	35.651	8.258	1.00	26.52
ATOM	892	OE1	GLU	917	33.060	35.904	7.139	1.00	27.67
ATOM	893	OE2	GLU	917	34.480	34.841	8.425	1.00	28.39
ATOM	894	C	GLU	917	30.853	35.051	12.434	1.00	14.78
ATOM	895	O	GLU	917	31.445	34.344	13.234	1.00	14.35
ATOM	896	N	PHE	918	29.557	34.958	12.229	1.00	19.12
ATOM	898	CA	PHE	918	28.688	34.042	12.966	1.00	18.07
ATOM	899	CB	PHE	918	27.334	34.721	13.168	1.00	18.48
ATOM	900	CG	PHE	918	26.275	33.840	13.748	1.00	17.83
ATOM	901	CD1	PHE	918	26.328	33.456	15.081	1.00	18.65
ATOM	902	CD2	PHE	918	25.213	33.400	12.953	1.00	21.10
ATOM	903	CE1	PHE	918	25.336	32.639	15.613	1.00	18.12
ATOM	904	CE2	PHE	918	24.210	32.580	13.473	1.00	14.29
ATOM	905	CZ	PHE	918	24.274	32.201	14.799	1.00	17.78
ATOM	906	C	PHE	918	28.487	32.805	12.113	1.00	18.83
ATOM	907	O	PHE	918	28.081	32.917	10.964	1.00	11.61
ATOM	908	N	CYS	919	28.761	31.635	12.676	1.00	19.49
ATOM	910	CA	CYS	919	28.590	30.372	11.947	1.00	19.00
ATOM	911	CB	CYS	919	29.855	29.566	12.069	1.00	16.78
ATOM	912	SG	CYS	919	31.225	30.428	11.325	1.00	16.84
ATOM	913	C	CYS	919	27.383	29.659	12.556	1.00	21.18
ATOM	914	O	CYS	919	27.474	29.135	13.676	1.00	20.69
ATOM	915	N	LYS	920	26.269	29.653	11.818	1.00	18.06
ATOM	917	CA	LYS	920	24.998	29.130	12.318	1.00	28.13
ATOM	918	CB	LYS	920	23.799	29.581	11.459	1.00	25.17
ATOM	919	CG	LYS	920	23.595	28.799	10.207	1.00	33.78
ATOM	920	CD	LYS	920	22.658	29.509	9.250	1.00	40.32
ATOM	921	CE	LYS	920	21.261	29.706	9.829	1.00	51.94
ATOM	922	NZ	LYS	920	20.343	30.396	8.845	1.00	56.09
ATOM	926	C	LYS	920	24.813	27.679	12.700	1.00	28.53
ATOM	927	O	LYS	920	24.020	27.405	13.592	1.00	31.57
ATOM	928	N	PHE	921	25.533	26.757	12.078	1.00	24.89
ATOM	930	CA	PHE	921	25.328	25.362	12.409	1.00	21.12
ATOM	931	CB	PHE	921	25.497	24.518	11.171	1.00	20.75
ATOM	932	CG	PHE	921	24.588	24.917	10.084	1.00	22.95
ATOM	933	CD1	PHE	921	23.224	24.734	10.219	1.00	27.55
ATOM	934	CD2	PHE	921	25.077	25.564	8.975	1.00	29.40
ATOM	935	CE1	PHE	921	22.362	25.205	9.269	1.00	35.42
ATOM	936	CE2	PHE	921	24.237	26.041	8.013	1.00	32.24
ATOM	937	CZ	PHE	921	22.869	25.870	8.154	1.00	38.81
ATOM	938	C	PHE	921	26.158	24.823	13.535	1.00	21.23
ATOM	939	O	PHE	921	26.002	23.664	13.900	1.00	22.74

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FIG. 7(19)

ATOM	940	N	GLY	922	27.047	25.659	14.065	1.00	18.39
ATOM	942	CA	GLY	922	27.906	25.257	15.172	1.00	17.62
ATOM	943	C	GLY	922	29.115	24.455	14.759	1.00	18.42
ATOM	944	O	GLY	922	29.331	24.230	13.581	1.00	20.81
ATOM	945	N	ASN	923	29.903	24.011	15.729	1.00	22.93
ATOM	947	CA	ASN	923	31.092	23.223	15.430	1.00	24.85
ATOM	948	CB	ASN	923	31.867	22.837	16.705	1.00	29.68
ATOM	949	CG	ASN	923	31.212	21.710	17.493	1.00	39.14
ATOM	950	OD1	ASN	923	31.252	20.550	17.087	1.00	41.11
ATOM	951	ND2	ASN	923	30.662	22.038	18.660	1.00	35.87
ATOM	954	C	ASN	923	30.818	22.019	14.523	1.00	21.09
ATOM	955	O	ASN	923	29.685	21.566	14.370	1.00	20.59
ATOM	956	N	LEU	924	31.867	21.523	13.896	1.00	21.13
ATOM	958	CA	LEU	924	31.740	20.431	12.957	1.00	22.85
ATOM	959	CB	LEU	924	33.019	20.377	12.126	1.00	23.67
ATOM	960	CG	LEU	924	33.019	19.462	10.920	1.00	17.22
ATOM	961	CD1	LEU	924	31.776	19.699	10.125	1.00	18.21
ATOM	962	CD2	LEU	924	34.268	19.729	10.095	1.00	23.82
ATOM	963	C	LEU	924	31.414	19.062	13.558	1.00	22.65
ATOM	964	O	LEU	924	30.601	18.326	13.013	1.00	26.13
ATOM	965	N	SER	925	31.035	18.742	14.687	1.00	20.06
ATOM	967	CA	SER	925	31.853	17.463	15.383	1.00	25.99
ATOM	968	CB	SER	925	32.741	17.400	16.623	1.00	27.28
ATOM	969	OG	SER	925	32.426	16.272	17.416	1.00	32.86
ATOM	971	C	SER	925	30.432	17.217	15.812	1.00	26.73
ATOM	972	O	SER	925	29.863	16.148	15.552	1.00	30.93
ATOM	973	N	THR	926	29.892	18.190	16.534	1.00	24.48
ATOM	975	CA	THR	926	28.535	18.129	16.996	1.00	19.27
ATOM	976	CB	THR	926	28.258	19.336	17.901	1.00	16.05
ATOM	977	OG1	THR	926	29.230	19.374	18.951	1.00	18.42
ATOM	979	CG2	THR	926	26.927	19.216	18.550	1.00	13.93
ATOM	980	C	THR	926	27.610	18.048	15.758	1.00	20.47
ATOM	981	O	THR	926	26.654	17.258	15.711	1.00	25.12
ATOM	982	N	TYR	927	27.961	18.760	14.701	1.00	18.97
ATOM	984	CA	TYR	927	27.128	18.715	13.515	1.00	20.97
ATOM	985	CB	TYR	927	27.597	19.720	12.464	1.00	18.52
ATOM	986	CG	TYR	927	26.708	19.683	11.230	1.00	18.69
ATOM	987	CD1	TYR	927	25.391	20.196	11.266	1.00	14.64
ATOM	988	CE1	TYR	927	24.567	20.173	10.125	1.00	13.73
ATOM	989	CD2	TYR	927	27.173	19.138	10.031	1.00	22.28
ATOM	990	CE2	TYR	927	26.347	19.104	8.879	1.00	24.92
ATOM	991	CZ	TYR	927	25.058	19.626	8.944	1.00	16.40
ATOM	992	OH	TYR	927	24.285	19.600	7.819	1.00	23.87

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FIG. 7(21)

ATOM 1052 NH1 ARG 932	30.018	9.098	15.809	1.00	47.32
ATOM 1055 NH2 ARG 932	27.916	8.725	16.645	1.00	53.04
ATOM 1058 C ARG 932	23.621	9.087	10.273	1.00	41.54
ATOM 1059 O ARG 932	23.821	8.135	9.532	1.00	41.31
ATOM 1060 N ASN 933	22.412	9.582	10.536	1.00	44.37
ATOM 1062 CA ASN 933	21.181	9.069	9.956	1.00	47.14
ATOM 1063 CB ASN 933	19.974	9.453	10.824	1.00	54.55
ATOM 1064 CG ASN 933	19.783	8.545	12.050	1.00	57.14
ATOM 1065 OD1 ASN 933	20.622	7.693	12.369	1.00	54.11
ATOM 1066 ND2 ASN 933	18.668	8.752	12.757	1.00	57.76
ATOM 1069 C ASN 933	20.974	9.680	8.589	1.00	49.60
ATOM 1070 O ASN 933	20.260	9.125	7.753	1.00	55.62
ATOM 1071 N GLU 934	21.494	10.888	8.403	1.00	52.11
ATOM 1073 CA GLU 934	21.365	11.580	7.122	1.00	52.39
ATOM 1074 CB GLU 934	20.859	13.007	7.323	1.00	56.14
ATOM 1075 CG GLU 934	19.434	13.095	7.822	1.00	59.40
ATOM 1076 CD GLU 934	19.332	13.686	9.211	1.00	63.97
ATOM 1077 OE1 GLU 934	18.427	13.250	9.953	1.00	69.17
ATOM 1078 OE2 GLU 934	20.138	14.580	9.563	1.00	64.27
ATOM 1079 C GLU 934	22.677	11.593	6.332	1.00	50.45
ATOM 1080 O GLU 934	23.188	12.663	5.961	1.00	50.70
ATOM 1081 N PHE 935	23.205	10.396	6.070	1.00	46.25
ATOM 1083 CA PHE 935	24.440	10.225	5.325	1.00	41.20
ATOM 1084 CB PHE 935	25.638	10.121	6.268	1.00	40.97
ATOM 1085 CG PHE 935	26.923	9.800	5.555	1.00	39.81
ATOM 1086 CD1 PHE 935	27.327	8.478	5.378	1.00	34.65
ATOM 1087 CD2 PHE 935	27.676	10.815	4.970	1.00	33.02
ATOM 1088 CE1 PHE 935	28.455	8.180	4.617	1.00	32.30
ATOM 1089 CE2 PHE 935	28.793	10.515	4.218	1.00	29.96
ATOM 1090 CZ PHE 935	29.181	9.201	4.037	1.00	29.08
ATOM 1091 C PHE 935	24.474	9.006	4.412	1.00	40.49
ATOM 1092 O PHE 935	24.394	7.871	4.865	1.00	40.47
ATOM 1093 N VAL 936	24.694	9.237	3.133	1.00	38.66
ATOM 1095 CA VAL 936	24.809	8.138	2.208	1.00	43.29
ATOM 1096 CB VAL 936	23.663	8.113	1.221	1.00	40.39
ATOM 1097 CG1 VAL 936	23.739	9.312	0.280	1.00	34.50
ATOM 1098 CG2 VAL 936	23.720	6.841	0.444	1.00	42.47
ATOM 1099 C VAL 936	26.087	8.436	1.438	1.00	49.63
ATOM 1100 O VAL 936	26.322	9.585	1.081	1.00	55.64
ATOM 1101 N PRO 937	26.960	7.433	1.222	1.00	50.29
ATOM 1102 CD PRO 937	26.966	6.087	1.822	1.00	49.69
ATOM 1103 CA PRO 937	28.207	7.669	0.483	1.00	50.65
ATOM 1104 CB PRO 937	28.676	6.260	0.177	1.00	46.68

FOE280" E286E680

FIG. 7(24)

ATOM 1210	CA	ILE	1006	35.914	15.589	1.609	1.00	18.77
ATOM 1211	CB	ILE	1006	36.128	14.806	0.276	1.00	16.46
ATOM 1212	CG2	ILE	1006	37.602	14.777	-0.103	1.00	12.82
ATOM 1213	CG1	ILE	1006	35.718	13.341	0.441	1.00	20.16
ATOM 1214	CD1	ILE	1006	35.961	12.446	-0.834	1.00	11.88
ATOM 1215	C	ILE	1006	35.998	17.136	1.377	1.00	22.88
ATOM 1216	O	ILE	1006	37.113	17.730	1.431	1.00	21.25
ATOM 1217	N	CYS	1007	34.854	17.788	1.108	1.00	21.47
ATOM 1219	CA	CYS	1007	34.860	19.240	0.909	1.00	21.66
ATOM 1220	CB	CYS	1007	33.522	19.825	0.431	1.00	24.87
ATOM 1221	SG	CYS	1007	33.760	21.544	-0.085	1.00	30.17
ATOM 1222	C	CYS	1007	35.247	19.953	2.196	1.00	22.22
ATOM 1223	O	CYS	1007	36.024	20.905	2.158	1.00	25.94
ATOM 1224	N	TYR	1008	34.691	19.527	3.331	1.00	20.53
ATOM 1226	CA	TYR	1008	35.030	20.132	4.617	1.00	17.94
ATOM 1227	CB	TYR	1008	34.248	19.493	5.758	1.00	18.61
ATOM 1228	CG	TYR	1008	32.753	19.488	5.626	1.00	17.97
ATOM 1229	CD1	TYR	1008	32.019	18.455	6.175	1.00	16.67
ATOM 1230	CE1	TYR	1008	30.641	18.462	6.158	1.00	22.78
ATOM 1231	CD2	TYR	1008	32.059	20.549	5.031	1.00	22.19
ATOM 1232	CE2	TYR	1008	30.646	20.569	5.011	1.00	20.60
ATOM 1233	CZ	TYR	1008	29.949	19.513	5.579	1.00	23.22
ATOM 1234	OH	TYR	1008	28.574	19.454	5.551	1.00	18.30
ATOM 1236	C	TYR	1008	36.537	19.945	4.883	1.00	18.55
ATOM 1237	O	TYR	1008	37.217	20.917	5.256	1.00	20.35
ATOM 1238	N	SER	1009	37.056	18.726	4.642	1.00	14.74
ATOM 1240	CA	SER	1009	38.476	18.409	4.852	1.00	13.39
ATOM 1241	CB	SER	1009	38.810	16.962	4.473	1.00	17.24
ATOM 1242	OG	SER	1009	38.018	16.001	5.152	1.00	26.04
ATOM 1244	C	SER	1009	39.310	19.309	3.985	1.00	16.36
ATOM 1245	O	SER	1009	40.317	19.864	4.446	1.00	20.21
ATOM 1246	N	PHE	1010	38.953	19.375	2.699	1.00	20.97
ATOM 1248	CA	PHE	1010	39.654	20.246	1.742	1.00	23.34
ATOM 1249	CB	PHE	1010	38.985	20.126	0.365	1.00	18.83
ATOM 1250	CG	PHE	1010	39.605	21.002	-0.685	1.00	17.13
ATOM 1251	CD1	PHE	1010	38.830	21.940	-1.370	1.00	13.94
ATOM 1252	CD2	PHE	1010	40.979	20.918	-0.968	1.00	17.85
ATOM 1253	CE1	PHE	1010	39.410	22.804	-2.339	1.00	16.30
ATOM 1254	CE2	PHE	1010	41.569	21.763	-1.917	1.00	17.15
ATOM 1255	CZ	PHE	1010	40.772	22.714	-2.608	1.00	18.02

FORBIO" 2222660

FIG. 7(28)

ATOM 1403 CE1 HIS 1026	42.428	26.085	16.424	1.00	26.31
ATOM 1404 NE2 HIS 1026	42.199	26.781	15.321	1.00	29.05
ATOM 1406 C HIS 1026	46.901	26.086	17.036	1.00	30.13
ATOM 1407 O HIS 1026	46.335	26.681	17.955	1.00	37.96
ATOM 1408 N ARG 1027	47.662	25.024	17.244	1.00	26.58
ATOM 1410 CA ARG 1027	47.872	24.429	18.583	1.00	31.87
ATOM 1411 CB ARG 1027	48.235	25.483	19.666	1.00	20.17
ATOM 1412 C ARG 1027	46.762	23.449	19.055	1.00	31.55
ATOM 1413 O ARG 1027	47.047	22.477	19.742	1.00	38.11
ATOM 1414 N ASP 1028	45.528	23.629	18.597	1.00	30.85
ATOM 1416 CA ASP 1028	44.466	22.698	18.955	1.00	26.34
ATOM 1417 CB ASP 1028	43.788	23.098	20.248	1.00	32.60
ATOM 1418 CG ASP 1028	42.847	22.020	20.755	1.00	35.64
ATOM 1419 OD1 ASP 1028	41.692	22.346	21.096	1.00	36.08
ATOM 1420 OD2 ASP 1028	43.267	20.842	20.790	1.00	40.39
ATOM 1421 C ASP 1028	43.435	22.565	17.841	1.00	26.23
ATOM 1422 O ASP 1028	42.276	22.926	17.998	1.00	23.40
ATOM 1423 N LEU 1029	43.884	22.034	16.708	1.00	24.88
ATOM 1425 CA LEU 1029	43.053	21.842	15.533	1.00	23.16
ATOM 1426 CB LEU 1029	43.958	21.772	14.299	1.00	18.78
ATOM 1427 CG LEU 1029	43.221	21.714	12.965	1.00	20.21
ATOM 1428 CD1 LEU 1029	42.349	22.952	12.812	1.00	15.13
ATOM 1429 CD2 LEU 1029	44.249	21.601	11.827	1.00	22.91
ATOM 1430 C LEU 1029	42.237	20.562	15.700	1.00	25.25
ATOM 1431 O LEU 1029	42.765	19.473	15.591	1.00	30.47
ATOM 1432 N ALA 1030	40.949	20.703	15.957	1.00	25.99
ATOM 1434 CA ALA 1030	40.062	19.574	16.182	1.00	25.19
ATOM 1435 CB ALA 1030	39.872	19.387	17.679	1.00	24.55
ATOM 1436 C ALA 1030	38.761	20.007	15.558	1.00	27.35
ATOM 1437 O ALA 1030	38.611	21.202	15.302	1.00	33.46
ATOM 1438 N ALA 1031	37.797	19.094	15.379	1.00	25.19
ATOM 1440 CA ALA 1031	36.508	19.451	14.752	1.00	22.16
ATOM 1441 CB ALA 1031	35.772	18.210	14.270	1.00	21.71
ATOM 1442 C ALA 1031	35.551	20.353	15.536	1.00	20.96
ATOM 1443 O ALA 1031	34.639	20.950	14.944	1.00	21.36
ATOM 1444 N ARG 1032	35.712	20.388	16.859	1.00	22.49
ATOM 1446 CA ARG 1032	34.898	21.246	17.736	1.00	27.01
ATOM 1447 CB ARG 1032	35.157	20.945	19.220	1.00	25.22
ATOM 1448 CG ARG 1032	36.534	21.451	19.707	1.00	34.44
ATOM 1449 CD ARG 1032	37.150	20.503	20.770	1.00	46.39

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FIG. 7(34)

ATOM 1698 N ALA 1073	50.545	15.800	18.547	1.00	25.55
ATOM 1700 CA ALA 1073	51.571	15.024	17.874	1.00	29.80
ATOM 1701 CB ALA 1073	52.369	15.912	16.958	1.00	22.65
ATOM 1702 C ALA 1073	52.448	14.453	18.989	1.00	34.88
ATOM 1703 O ALA 1073	52.431	14.970	20.115	1.00	39.38
ATOM 1704 N PRO 1074	53.183	13.355	18.724	1.00	36.01
ATOM 1705 CD PRO 1074	53.087	12.450	17.570	1.00	31.55
ATOM 1706 CA PRO 1074	54.040	12.771	19.769	1.00	36.24
ATOM 1707 CB PRO 1074	54.544	11.485	19.115	1.00	34.34
ATOM 1708 CG PRO 1074	53.415	11.137	18.193	1.00	31.88
ATOM 1709 C PRO 1074	55.189	13.670	20.288	1.00	37.13
ATOM 1710 O PRO 1074	55.570	13.575	21.447	1.00	34.58
ATOM 1711 N GLU 1075	55.746	14.533	19.440	1.00	37.40
ATOM 1713 CA GLU 1075	56.813	15.422	19.884	1.00	40.62
ATOM 1714 CB GLU 1075	57.598	15.990	18.707	1.00	33.55
ATOM 1715 CG GLU 1075	56.853	16.957	17.844	1.00	39.40
ATOM 1716 CD GLU 1075	55.952	16.300	16.828	1.00	43.14
ATOM 1717 OE1 GLU 1075	55.965	15.055	16.720	1.00	49.09
ATOM 1718 OE2 GLU 1075	55.228	17.040	16.124	1.00	44.63
ATOM 1719 C GLU 1075	56.239	16.546	20.757	1.00	42.73
ATOM 1720 O GLU 1075	56.903	17.061	21.639	1.00	44.76
ATOM 1721 N THR 1076	54.982	16.888	20.524	1.00	46.13
ATOM 1723 CA THR 1076	54.304	17.923	21.283	1.00	46.22
ATOM 1724 CB THR 1076	52.991	18.319	20.605	1.00	43.95
ATOM 1725 OG1 THR 1076	53.245	18.666	19.230	1.00	46.46
ATOM 1727 CG2 THR 1076	52.361	19.481	21.334	1.00	43.93
ATOM 1728 C THR 1076	53.991	17.378	22.662	1.00	47.62
ATOM 1729 O THR 1076	54.175	18.057	23.650	1.00	52.45
ATOM 1730 N ILE 1077	53.442	16.173	22.717	1.00	47.96
ATOM 1732 CA ILE 1077	53.123	15.528	23.980	1.00	46.99
ATOM 1733 CB ILE 1077	52.496	14.151	23.720	1.00	46.43
ATOM 1734 CG2 ILE 1077	52.691	13.232	24.895	1.00	46.16
ATOM 1735 CG1 ILE 1077	51.024	14.306	23.384	1.00	44.29
ATOM 1736 CD1 ILE 1077	50.336	13.010	23.163	1.00	46.43
ATOM 1737 C ILE 1077	54.418	15.345	24.767	1.00	51.37
ATOM 1738 O ILE 1077	54.473	15.577	25.974	1.00	52.53
ATOM 1739 N PHE 1078	55.458	14.931	24.058	1.00	53.41
ATOM 1741-CA PHE 1078	56.750	14.696	24.672	1.00	58.94
ATOM 1742 CB PHE 1078	57.506	13.570	23.925	1.00	60.74
ATOM 1743 CG PHE 1078	56.901	12.184	24.124	1.00	57.84

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FIG. 7(35)

ATOM 1744 CD1 PHE 1078	56.068	11.612	23.169	1.00	54.09
ATOM 1745 CD2 PHE 1078	57.127	11.483	25.298	1.00	58.64
ATOM 1746 CE1 PHE 1078	55.478	10.380	23.381	1.00	53.82
ATOM 1747 CE2 PHE 1078	56.539	10.254	25.514	1.00	57.20
ATOM 1748 CZ PHE 1078	55.711	9.703	24.555	1.00	55.07
ATOM 1749 C PHE 1078	57.574	15.981	24.767	1.00	63.98
ATOM 1750 O PHE 1078	57.433	16.738	25.736	1.00	67.06
ATOM 1751 N ASP 1079	58.356	16.274	23.724	1.00	66.97
ATOM 1753 CA ASP 1079	59.215	17.472	23.678	1.00	68.09
ATOM 1754 CB ASP 1079	60.225	17.402	22.501	1.00	66.89
ATOM 1755 CG ASP 1079	60.174	16.082	21.714	1.00	69.02
ATOM 1756 OD1 ASP 1079	60.254	16.156	20.474	1.00	71.23
ATOM 1757 OD2 ASP 1079	60.089	14.980	22.308	1.00	69.71
ATOM 1758 C ASP 1079	58.434	18.806	23.599	1.00	67.74
ATOM 1759 O ASP 1079	59.011	19.848	23.266	1.00	66.85
ATOM 1760 N ARG 1080	57.137	18.747	23.926	1.00	68.20
ATOM 1762 CA ARG 1080	56.173	19.858	23.898	1.00	66.60
ATOM 1763 CB ARG 1080	55.997	20.496	25.279	1.00	67.64
ATOM 1764 CG ARG 1080	54.529	20.758	25.638	1.00	71.26
ATOM 1765 CD ARG 1080	53.823	19.481	26.096	1.00	73.66
ATOM 1766 NE ARG 1080	52.364	19.610	26.226	1.00	75.75
ATOM 1768 CZ ARG 1080	51.642	18.981	27.157	1.00	74.86
ATOM 1769 NH1 ARG 1080	50.321	19.134	27.211	1.00	69.96
ATOM 1772 NH2 ARG 1080	52.247	18.212	28.060	1.00	72.78
ATOM 1775 C ARG 1080	56.305	20.920	22.801	1.00	63.93
ATOM 1776 O ARG 1080	55.861	22.069	22.955	1.00	61.93
ATOM 1777 N VAL 1081	56.863	20.510	21.667	1.00	61.30
ATOM 1779 CA VAL 1081	57.034	21.413	20.545	1.00	58.53
ATOM 1780 CB VAL 1081	58.202	20.951	19.584	1.00	60.54
ATOM 1781 CG1 VAL 1081	59.304	20.266	20.370	1.00	62.35
ATOM 1782 CG2 VAL 1081	57.701	20.043	18.455	1.00	55.04
ATOM 1783 C VAL 1081	55.713	21.481	19.771	1.00	56.90
ATOM 1784 O VAL 1081	55.052	20.452	19.560	1.00	57.43
ATOM 1785 N TYR 1082	55.287	22.699	19.435	1.00	51.51
ATOM 1787 CA TYR 1082	54.078	22.909	18.641	1.00	41.08
ATOM 1788 CB TYR 1082	53.092	23.847	19.332	1.00	37.59
ATOM 1789 CG TYR 1082	52.275	23.238	20.442	1.00	32.41
ATOM 1790 CD1 TYR 1082	52.800	23.135	21.721	1.00	38.13
ATOM 1791 CE1 TYR 1082	52.043	22.663	22.781	1.00	38.73
ATOM 1792 CD2 TYR 1082	50.961	22.843	20.234	1.00	27.91

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FIG. 7(36)

ATOM 1793 CE2 TYR 1082	50.189	22.374	21.287	1.00	33.59
ATOM 1794 CZ TYR 1082	50.739	22.290	22.572	1.00	36.82
ATOM 1795 OH TYR 1082	50.001	21.874	23.679	1.00	39.60
ATOM 1797 C TYR 1082	54.591	23.598	17.410	1.00	34.81
ATOM 1798 O TYR 1082	55.240	24.608	17.545	1.00	33.62
ATOM 1799 N THR 1083	54.394	22.997	16.236	1.00	34.71
ATOM 1801 CA THR 1083	54.819	23.573	14.946	1.00	30.90
ATOM 1802 CB THR 1083	56.106	22.894	14.384	1.00	29.46
ATOM 1803 OG1 THR 1083	55.789	21.598	13.837	1.00	30.18
ATOM 1805 CG2 THR 1083	57.159	22.768	15.486	1.00	21.74
ATOM 1806 C THR 1083	53.678	23.371	13.946	1.00	27.79
ATOM 1807 O THR 1083	52.651	22.777	14.293	1.00	28.80
ATOM 1808 N ILE 1084	53.804	23.869	12.721	1.00	24.37
ATOM 1810 CA ILE 1084	52.700	23.615	11.797	1.00	27.69
ATOM 1811 CB ILE 1084	52.739	24.381	10.465	1.00	28.65
ATOM 1812 CG2 ILE 1084	51.450	25.166	10.284	1.00	29.19
ATOM 1813 CG1 ILE 1084	53.977	25.259	10.361	1.00	37.75
ATOM 1814 CD1 ILE 1084	55.235	24.517	9.985	1.00	46.61
ATOM 1815 C ILE 1084	52.689	22.143	11.459	1.00	26.44
ATOM 1816 O ILE 1084	51.627	21.589	11.173	1.00	24.29
ATOM 1817 N GLN 1085	53.861	21.507	11.518	1.00	25.11
ATOM 1819 CA GLN 1085	53.920	20.097	11.188	1.00	24.39
ATOM 1820 CB GLN 1085	55.315	19.612	10.823	1.00	27.61
ATOM 1821 CG GLN 1085	55.753	20.012	9.411	1.00	33.25
ATOM 1822 CD GLN 1085	54.653	19.826	8.347	1.00	34.07
ATOM 1823 OE1 GLN 1085	53.943	20.779	8.004	1.00	41.60
ATOM 1824 NE2 GLN 1085	54.546	18.632	7.797	1.00	28.88
ATOM 1827 C GLN 1085	53.296	19.267	12.258	1.00	23.23
ATOM 1828 O GLN 1085	52.900	18.141	11.981	1.00	25.97
ATOM 1829 N SER 1086	53.195	19.798	13.480	1.00	20.86
ATOM 1831 CA SER 1086	52.488	19.040	14.507	1.00	18.08
ATOM 1832 CB SER 1086	53.044	19.256	15.926	1.00	20.91
ATOM 1833 OG SER 1086	52.870	20.559	16.440	1.00	21.60
ATOM 1835 C SER 1086	50.962	19.336	14.353	1.00	20.67
ATOM 1836 O SER 1086	50.138	18.531	14.806	1.00	13.79
ATOM 1837 N ASP 1087	50.602	20.415	13.609	1.00	18.68
ATOM 1839 CA ASP 1087	49.190	20.793	13.324	1.00	11.08
ATOM 1840 CB ASP 1087	49.038	22.249	12.805	1.00	21.08
ATOM 1841 CG ASP 1087	48.845	23.287	13.920	1.00	23.79
ATOM 1842 OD1 ASP 1087	49.348	24.407	13.745	1.00	31.01

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FIG. 7(37)

ATOM 1843 OD2 ASP 1087	48.212	23.013	14.967	1.00	28.91
ATOM 1844 C ASP 1087	48.632	19.860	12.261	1.00	11.16
ATOM 1845 O ASP 1087	47.406	19.640	12.177	1.00	12.65
ATOM 1846 N VAL 1088	49.520	19.390	11.390	1.00	9.61
ATOM 1848 CA VAL 1088	49.181	18.404	10.345	1.00	13.37
ATOM 1849 CB VAL 1088	50.351	18.195	9.389	1.00	15.40
ATOM 1850 CG1 VAL 1088	50.057	17.067	8.486	1.00	14.68
ATOM 1851 CG2 VAL 1088	50.609	19.477	8.587	1.00	10.67
ATOM 1852 C VAL 1088	48.839	17.061	11.014	1.00	13.67
ATOM 1853 O VAL 1088	47.897	16.387	10.618	1.00	15.00
ATOM 1854 N TRP 1089	49.618	16.668	12.015	1.00	12.30
ATOM 1856 CA TRP 1089	49.301	15.460	12.748	1.00	12.96
ATOM 1857 CB TRP 1089	50.236	15.279	13.960	1.00	16.98
ATOM 1858 CG TRP 1089	49.764	14.195	14.887	1.00	18.14
ATOM 1859 CD2 TRP 1089	50.325	12.884	15.031	1.00	18.48
ATOM 1860 CE2 TRP 1089	49.476	12.162	15.893	1.00	20.05
ATOM 1861 CE3 TRP 1089	51.460	12.245	14.503	1.00	22.61
ATOM 1862 CD1 TRP 1089	48.640	14.215	15.657	1.00	18.89
ATOM 1863 NE1 TRP 1089	48.451	12.995	16.255	1.00	19.54
ATOM 1865 CZ2 TRP 1089	49.725	10.839	16.249	1.00	20.08
ATOM 1866 CZ3 TRP 1089	51.709	10.927	14.855	1.00	17.00
ATOM 1867 CH2 TRP 1089	50.846	10.243	15.722	1.00	23.71
ATOM 1868 C TRP 1089	47.873	15.711	13.207	1.00	14.68
ATOM 1869 O TRP 1089	46.987	14.958	12.842	1.00	20.33
ATOM 1870 N SER 1090	47.636	16.823	13.923	1.00	18.59
ATOM 1872 CA SER 1090	46.287	17.209	14.413	1.00	15.54
ATOM 1873 CB SER 1090	46.297	18.603	15.043	1.00	12.20
ATOM 1874 OG SER 1090	47.066	18.621	16.237	1.00	18.86
ATOM 1876 C SER 1090	45.256	17.190	13.309	1.00	16.50
ATOM 1877 O SER 1090	44.128	16.691	13.487	1.00	18.14
ATOM 1878 N PHE 1091	45.635	17.745	12.158	1.00	23.35
ATOM 1880 CA PHE 1091	44.746	17.776	10.997	1.00	20.78
ATOM 1881 CB PHE 1091	45.445	18.399	9.786	1.00	17.07
ATOM 1882 CG PHE 1091	44.533	18.524	8.598	1.00	21.98
ATOM 1883 CD1 PHE 1091	43.396	19.347	8.666	1.00	17.34
ATOM 1884 CD2 PHE 1091	44.740	17.754	7.460	1.00	19.42
ATOM 1885 CE1 PHE 1091	42.485	19.398	7.641	1.00	15.43
ATOM 1886 CE2 PHE 1091	43.829	17.792	6.421	1.00	18.06
ATOM 1887 CZ PHE 1091	42.693	18.618	6.509	1.00	19.76
ATOM 1888 C PHE 1091	44.306	16.332	10.667	1.00	17.25

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FIG. 7(38)

ATOM 1889 O PHE 1091	43.147	16.077	10.334	1.00	15.79
ATOM 1890 N GLY 1092	45.258	15.408	10.812	1.00	19.49
ATOM 1892 CA GLY 1092	45.042	13.988	10.577	1.00	18.11
ATOM 1893 C GLY 1092	44.029	13.429	11.544	1.00	19.35
ATOM 1894 O GLY 1092	43.235	12.581	11.137	1.00	24.23
ATOM 1895 N VAL 1093	44.073	13.836	12.819	1.00	18.53
ATOM 1897 CA VAL 1093	43.055	13.392	13.788	1.00	20.09
ATOM 1898 CB VAL 1093	43.389	13.752	15.298	1.00	15.18
ATOM 1899 CG1 VAL 1093	42.421	13.051	16.187	1.00	17.08
ATOM 1900 CG2 VAL 1093	44.778	13.310	15.698	1.00	11.27
ATOM 1901 C VAL 1093	41.661	13.971	13.376	1.00	22.42
ATOM 1902 O VAL 1093	40.649	13.253	13.396	1.00	26.19
ATOM 1903 N LEU 1094	41.618	15.235	12.938	1.00	23.95
ATOM 1905 CA LEU 1094	40.363	15.893	12.484	1.00	19.63
ATOM 1906 CB LEU 1094	40.667	17.338	12.050	1.00	25.24
ATOM 1907 CG LEU 1094	39.587	18.420	11.974	1.00	27.30
ATOM 1908 CD1 LEU 1094	40.136	19.497	11.113	1.00	28.26
ATOM 1909 CD2 LEU 1094	38.265	17.929	11.385	1.00	27.54
ATOM 1910 C LEU 1094	39.775	15.146	11.280	1.00	16.12
ATOM 1911 O LEU 1094	38.555	15.002	11.129	1.00	16.14
ATOM 1912 N LEU 1095	40.631	14.766	10.348	1.00	16.30
ATOM 1914 CA LEU 1095	40.155	14.003	9.195	1.00	17.98
ATOM 1915 CB LEU 1095	41.321	13.538	8.317	1.00	16.52
ATOM 1916 CG LEU 1095	41.981	14.536	7.386	1.00	14.88
ATOM 1917 CD1 LEU 1095	42.807	13.734	6.399	1.00	11.81
ATOM 1918 CD2 LEU 1095	40.931	15.401	6.639	1.00	21.08
ATOM 1919 C LEU 1095	39.437	12.770	9.722	1.00	17.52
ATOM 1920 O LEU 1095	38.324	12.448	9.270	1.00	16.23
ATOM 1921 N TRP 1096	40.077	12.105	10.697	1.00	14.50
ATOM 1923 CA TRP 1096	39.509	10.916	11.304	1.00	14.02
ATOM 1924 CB TRP 1096	40.452	10.330	12.337	1.00	13.21
ATOM 1925 CG TRP 1096	40.010	8.992	12.850	1.00	18.93
ATOM 1926 CD2 TRP 1096	39.016	8.732	13.856	1.00	24.77
ATOM 1927 CE2 TRP 1096	38.952	7.319	14.020	1.00	27.07
ATOM 1928 CE3 TRP 1096	38.178	9.546	14.647	1.00	29.39
ATOM 1929 CD1 TRP 1096	40.483	7.781	12.460	1.00	21.28
ATOM 1930 NE1 TRP 1096	39.854	6.770	13.154	1.00	18.61
ATOM 1932 CZ2 TRP 1096	38.075	6.700	14.954	1.00	28.21
ATOM 1933 CZ3 TRP 1096	37.303	8.927	15.581	1.00	29.42
ATOM 1934 CH2 TRP 1096	37.266	7.511	15.719	1.00	27.60

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FIG. 7(39)

ATOM 1935 C TRP 1096	38.159	11.236	11.927	1.00	18.94
ATOM 1936 O TRP 1096	37.212	10.439	11.826	1.00	22.31
ATOM 1937 N GLU 1097	38.046	12.385	12.592	1.00	23.97
ATOM 1939 CA GLU 1097	36.754	12.750	13.195	1.00	21.61
ATOM 1940 CB GLU 1097	36.823	14.012	14.041	1.00	26.60
ATOM 1941 CG GLU 1097	37.880	14.065	15.109	1.00	21.55
ATOM 1942 CD GLU 1097	37.795	15.380	15.800	1.00	23.56
ATOM 1943 OE1 GLU 1097	36.726	15.591	16.393	1.00	21.97
ATOM 1944 OE2 GLU 1097	38.741	16.208	15.706	1.00	20.79
ATOM 1945 C GLU 1097	35.744	13.010	12.116	1.00	19.15
ATOM 1946 O GLU 1097	34.549	12.766	12.304	1.00	28.35
ATOM 1947 N ILE 1098	36.190	13.565	11.001	1.00	17.99
ATOM 1949 CA ILE 1098	35.244	13.821	9.915	1.00	17.98
ATOM 1950 CB ILE 1098	35.862	14.650	8.732	1.00	13.59
ATOM 1951 CG2 ILE 1098	34.880	14.725	7.568	1.00	13.47
ATOM 1952 CG1 ILE 1098	36.169	16.074	9.181	1.00	11.46
ATOM 1953 CD1 ILE 1098	36.691	16.960	8.074	1.00	9.72
ATOM 1954 C ILE 1098	34.645	12.529	9.372	1.00	16.07
ATOM 1955 O ILE 1098	33.444	12.445	9.171	1.00	18.22
ATOM 1956 N PHE 1099	35.460	11.499	9.171	1.00	20.11
ATOM 1958 CA PHE 1099	34.925	10.257	8.601	1.00	18.95
ATOM 1959 CB PHE 1099	35.909	9.660	7.625	1.00	16.86
ATOM 1960 CG PHE 1099	36.269	10.584	6.517	1.00	12.61
ATOM 1961 CD1 PHE 1099	37.308	11.468	6.671	1.00	14.37
ATOM 1962 CD2 PHE 1099	35.522	10.624	5.362	1.00	18.03
ATOM 1963 CE1 PHE 1099	37.595	12.369	5.717	1.00	13.66
ATOM 1964 CE2 PHE 1099	35.811	11.553	4.378	1.00	16.05
ATOM 1965 CZ PHE 1099	36.843	12.418	4.568	1.00	17.86
ATOM 1966 C PHE 1099	34.368	9.201	9.551	1.00	23.18
ATOM 1967 O PHE 1099	34.111	8.070	9.149	1.00	22.90
ATOM 1968 N SER 1100	34.274	9.553	10.825	1.00	26.68
ATOM 1970 CA SER 1100	33.652	8.690	11.820	1.00	24.51
ATOM 1971 CB SER 1100	34.504	8.572	13.079	1.00	25.60
ATOM 1972 OG SER 1100	34.826	9.842	13.625	1.00	29.76
ATOM 1974 C SER 1100	32.398	9.465	12.145	1.00	26.92
ATOM 1975 O SER 1100	31.765	9.211	13.157	1.00	31.32
ATOM 1976 N LEU 1101	32.018	10.387	11.251	1.00	28.15
ATOM 1978 CA LEU 1101	30.860	11.241	11.453	1.00	24.97
ATOM 1979 CB LEU 1101	29.556	10.557	11.015	1.00	22.00
ATOM 1980 CG LEU 1101	29.423	10.410	9.495	1.00	25.66

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FIG. 7(40)

ATOM 1981 CD1 LEU 1101	28.060	9.866	9.127	1.00	22.23
ATOM 1982 CD2 LEU 1101	29.632	11.768	8.829	1.00	32.30
ATOM 1983 C LEU 1101	30.771	11.779	12.888	1.00	26.64
ATOM 1984 O LEU 1101	29.793	11.552	13.580	1.00	31.34
ATOM 1985 N GLY 1102	31.828	12.446	13.336	1.00	24.93
ATOM 1987 CA GLY 1102	31.836	13.057	14.650	1.00	28.61
ATOM 1988 C GLY 1102	32.129	12.293	15.917	1.00	32.38
ATOM 1989 O GLY 1102	31.647	12.693	16.950	1.00	35.69
ATOM 1990 N ALA 1103	33.004	11.291	15.876	1.00	35.95
ATOM 1992 CA ALA 1103	33.354	10.500	17.060	1.00	31.27
ATOM 1993 CB ALA 1103	33.515	9.041	16.672	1.00	36.15
ATOM 1994 C ALA 1103	34.625	10.972	17.747	1.00	34.29
ATOM 1995 O ALA 1103	35.382	11.788	17.190	1.00	36.92
ATOM 1996 N SER 1104	34.886	10.417	18.934	1.00	33.11
ATOM 1998 CA SER 1104	36.087	10.744	19.715	1.00	35.13
ATOM 1999 CB SER 1104	35.906	10.422	21.207	1.00	38.40
ATOM 2000 OG SER 1104	34.719	10.964	21.765	1.00	50.36
ATOM 2002 C SER 1104	37.216	9.852	19.249	1.00	34.54
ATOM 2003 O SER 1104	37.039	8.640	19.167	1.00	33.44
ATOM 2004 N PRO 1105	38.395	10.434	18.963	1.00	32.93
ATOM 2005 CD PRO 1105	38.678	11.877	18.972	1.00	31.54
ATOM 2006 CA PRO 1105	39.571	9.693	18.513	1.00	29.88
ATOM 2007 CB PRO 1105	40.633	10.781	18.465	1.00	22.24
ATOM 2008 CG PRO 1105	39.883	11.965	18.079	1.00	28.04
ATOM 2009 C PRO 1105	39.919	8.659	19.582	1.00	32.54
ATOM 2010 O PRO 1105	39.480	8.795	20.731	1.00	28.79
ATOM 2011 N TYR 1106	40.700	7.648	19.196	1.00	34.52
ATOM 2013 CA TYR 1106	41.148	6.564	20.085	1.00	39.62
ATOM 2014 CB TYR 1106	42.374	6.994	20.896	1.00	37.66
ATOM 2015 CG TYR 1106	43.496	7.566	20.059	1.00	39.50
ATOM 2016 CD1 TYR 1106	43.690	8.957	19.976	1.00	37.50
ATOM 2017 CE1 TYR 1106	44.655	9.518	19.143	1.00	35.61
ATOM 2018 CD2 TYR 1106	44.315	6.739	19.293	1.00	34.54
ATOM 2019 CE2 TYR 1106	45.305	7.290	18.446	1.00	38.80
ATOM 2020 CZ TYR 1106	45.466	8.686	18.373	1.00	38.23
ATOM 2021 OH TYR 1106	46.412	9.240	17.520	1.00	31.37
ATOM 2023 C TYR 1106	40.022	6.128	21.016	1.00	47.24
ATOM 2024 O TYR 1106	40.100	6.296	22.247	1.00	46.94
ATOM 2025 N PRO 1107	38.947	5.570	20.431	1.00	52.30
ATOM 2026 CD PRO 1107	38.880	5.234	18.996	1.00	52.76

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FIG. 7(41)

ATOM 2027	CA	PRO	1107	37.750	5.088	21.125	1.00	55.67
ATOM 2028	CB	PRO	1107	37.078	4.223	20.066	1.00	55.09
ATOM 2029	CG	PRO	1107	37.420	4.931	18.797	1.00	52.62
ATOM 2030	C	PRO	1107	38.035	4.300	22.408	1.00	60.55
ATOM 2031	O	PRO	1107	38.668	3.231	22.377	1.00	60.88
ATOM 2032	N	GLY	1108	37.631	4.894	23.533	1.00	62.85
ATOM 2034	CA	GLY	1108	37.790	4.284	24.845	1.00	63.10
ATOM 2035	C	GLY	1108	39.171	3.783	25.228	1.00	61.44
ATOM 2036	O	GLY	1108	39.319	3.010	26.178	1.00	63.49
ATOM 2037	N	VAL	1109	40.181	4.228	24.498	1.00	58.31
ATOM 2039	CA	VAL	1109	41.548	3.835	24.766	1.00	55.54
ATOM 2040	CB	VAL	1109	42.430	4.181	23.580	1.00	54.11
ATOM 2041	CG1	VAL	1109	43.857	3.787	23.857	1.00	51.33
ATOM 2042	CG2	VAL	1109	41.875	3.528	22.306	1.00	54.09
ATOM 2043	C	VAL	1109	42.006	4.657	25.949	1.00	57.04
ATOM 2044	O	VAL	1109	41.492	5.749	26.163	1.00	57.18
ATOM 2045	N	LYS	1110	42.969	4.140	26.711	1.00	59.43
ATOM 2047	CA	LYS	1110	43.497	4.849	27.880	1.00	60.27
ATOM 2048	CB	LYS	1110	43.928	3.842	28.936	1.00	63.70
ATOM 2049	C	LYS	1110	44.664	5.796	27.538	1.00	60.52
ATOM 2050	O	LYS	1110	45.570	5.410	26.780	1.00	61.06
ATOM 2051	N	ILE	1111	44.665	7.006	28.115	1.00	58.79
ATOM 2053	CA	ILE	1111	45.732	7.987	27.859	1.00	60.01
ATOM 2054	CB	ILE	1111	45.236	9.441	27.886	1.00	63.41
ATOM 2055	CG2	ILE	1111	44.517	9.798	26.596	1.00	58.31
ATOM 2056	CG1	ILE	1111	44.413	9.688	29.145	1.00	69.87
ATOM 2057	CD1	ILE	1111	44.341	11.144	29.528	1.00	75.64
ATOM 2058	C	ILE	1111	46.949	7.891	28.781	1.00	58.91
ATOM 2059	O	ILE	1111	47.670	8.862	28.992	1.00	59.56
ATOM 2060	N	ASP	1112	47.187	6.697	29.299	1.00	60.43
ATOM 2062	CA	ASP	1112	48.312	6.407	30.173	1.00	56.25
ATOM 2063	CB	ASP	1112	48.318	4.919	30.421	1.00	59.88
ATOM 2064	CG	ASP	1112	48.273	4.131	29.122	1.00	67.87
ATOM 2065	OD1	ASP	1112	47.179	3.893	28.564	1.00	71.34
ATOM 2066	OD2	ASP	1112	49.348	3.765	28.628	1.00	72.11
ATOM 2067	C	ASP	1112	49.612	6.795	29.489	1.00	54.37
ATOM 2068	O	ASP	1112	49.634	7.066	28.284	1.00	50.67
ATOM 2069	N	GLU	1113	50.710	6.741	30.236	1.00	55.36
ATOM 2071	CA	GLU	1113	52.024	7.089	29.683	1.00	55.99
ATOM 2072	CB	GLU	1113	53.051	7.374	30.806	1.00	58.69

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FIG. 7(42)

ATOM 2073	C	GLU	1113	52.552	6.015	28.726	1.00	54.42
ATOM 2074	O	GLU	1113	53.624	6.175	28.126	1.00	51.91
ATOM 2075	N	GLU	1114	51.822	4.903	28.627	1.00	51.54
ATOM 2077	CA	GLU	1114	52.192	3.819	27.719	1.00	54.36
ATOM 2078	CB	GLU	1114	51.873	2.452	28.322	1.00	56.43
ATOM 2079	CG	GLU	1114	53.072	1.749	28.948	1.00	63.29
ATOM 2080	CD	GLU	1114	53.996	2.661	29.772	1.00	67.36
ATOM 2081	OE1	GLU	1114	55.153	2.870	29.329	1.00	67.34
ATOM 2082	OE2	GLU	1114	53.590	3.127	30.873	1.00	68.20
ATOM 2083	C	GLU	1114	51.440	4.031	26.412	1.00	52.22
ATOM 2084	O	GLU	1114	51.830	3.514	25.360	1.00	51.74
ATOM 2085	N	PHE	1115	50.383	4.840	26.486	1.00	49.67
ATOM 2087	CA	PHE	1115	49.603	5.175	25.320	1.00	44.59
ATOM 2088	CB	PHE	1115	48.400	6.013	25.688	1.00	44.73
ATOM 2089	CG	PHE	1115	47.918	6.890	24.579	1.00	49.93
ATOM 2090	CD1	PHE	1115	48.140	8.270	24.621	1.00	50.02
ATOM 2091	CD2	PHE	1115	47.251	6.344	23.477	1.00	53.38
ATOM 2092	CE1	PHE	1115	47.704	9.098	23.577	1.00	52.88
ATOM 2093	CE2	PHE	1115	46.805	7.158	22.425	1.00	51.00
ATOM 2094	CZ	PHE	1115	47.033	8.535	22.474	1.00	54.64
ATOM 2095	C	PHE	1115	50.582	5.981	24.507	1.00	46.08
ATOM 2096	O	PHE	1115	50.929	5.572	23.402	1.00	47.48
ATOM 2097	N	CYS	1116	51.127	7.047	25.101	1.00	43.91
ATOM 2099	CA	CYS	1116	52.109	7.898	24.404	1.00	45.79
ATOM 2100	CB	CYS	1116	52.473	9.113	25.247	1.00	44.47
ATOM 2101	SG	CYS	1116	51.129	9.723	26.295	1.00	64.10
ATOM 2102	C	CYS	1116	53.392	7.140	24.019	1.00	46.03
ATOM 2103	O	CYS	1116	54.232	7.667	23.279	1.00	46.86
ATOM 2104	N	ARG	1117	53.536	5.911	24.529	1.00	44.91
ATOM 2106	CA	ARG	1117	54.688	5.069	24.237	1.00	41.89
ATOM 2107	CB	ARG	1117	54.882	4.001	25.308	1.00	43.78
ATOM 2108	CG	ARG	1117	56.237	3.298	25.233	1.00	45.19
ATOM 2109	CD	ARG	1117	56.189	1.905	25.856	1.00	47.09
ATOM 2110	NE	ARG	1117	55.490	0.922	25.021	1.00	49.55
ATOM 2112	CZ	ARG	1117	54.329	0.337	25.336	1.00	51.59
ATOM 2113	NH1	ARG	1117	53.783	-0.547	24.506	1.00	51.49
ATOM 2116	NH2	ARG	1117	53.695	0.649	26.461	1.00	47.17
ATOM 2119	C	ARG	1117	54.370	4.389	22.927	1.00	38.98
ATOM 2120	O	ARG	1117	55.156	4.455	21.996	1.00	42.49
ATOM 2121	N	ARG	1118	53.206	3.751	22.860	1.00	35.52

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FIG. 7(43)

ATOM 2123 CA ARG 1118	52.745	3.072	21.649	1.00	36.78
ATOM 2124 CB ARG 1118	51.330	2.559	21.880	1.00	31.14
ATOM 2125 CG ARG 1118	51.216	1.675	23.068	1.00	34.41
ATOM 2126 CD ARG 1118	49.766	1.587	23.535	1.00	45.83
ATOM 2127 NE ARG 1118	48.897	0.750	22.693	1.00	53.41
ATOM 2129 CZ ARG 1118	47.564	0.658	22.826	1.00	55.58
ATOM 2130 NH1 ARG 1118	46.862	-0.144	22.025	1.00	56.70
ATOM 2133 NH2 ARG 1118	46.921	1.380	23.745	1.00	55.55
ATOM 2136 C ARG 1118	52.742	4.067	20.471	1.00	38.92
ATOM 2137 O ARG 1118	53.331	3.835	19.400	1.00	38.28
ATOM 2138 N LEU 1119	52.063	5.186	20.711	1.00	40.67
ATOM 2140 CA LEU 1119	51.912	6.295	19.779	1.00	36.71
ATOM 2141 CB LEU 1119	51.192	7.416	20.540	1.00	32.46
ATOM 2142 CG LEU 1119	50.238	8.508	20.049	1.00	25.91
ATOM 2143 CD1 LEU 1119	51.047	9.651	19.564	1.00	19.62
ATOM 2144 CD2 LEU 1119	49.250	7.993	19.024	1.00	22.26
ATOM 2145 C LEU 1119	53.301	6.728	19.245	1.00	38.89
ATOM 2146 O LEU 1119	53.469	6.960	18.047	1.00	43.59
ATOM 2147 N LYS 1120	54.315	6.771	20.099	1.00	42.22
ATOM 2149 CA LYS 1120	55.649	7.152	19.640	1.00	41.56
ATOM 2150 CB LYS 1120	56.523	7.548	20.813	1.00	42.85
ATOM 2151 CG LYS 1120	57.467	8.670	20.467	1.00	52.51
ATOM 2152 CD LYS 1120	58.407	8.989	21.620	1.00	60.23
ATOM 2153 CE LYS 1120	59.298	10.206	21.321	1.00	69.72
ATOM 2154 NZ LYS 1120	58.605	11.557	21.283	1.00	76.23
ATOM 2158 C LYS 1120	56.351	6.050	18.825	1.00	43.73
ATOM 2159 O LYS 1120	57.287	6.342	18.073	1.00	47.49
ATOM 2160 N GLU 1121	55.892	4.800	18.966	1.00	43.94
ATOM 2162 CA GLU 1121	56.453	3.636	18.262	1.00	41.07
ATOM 2163 CB GLU 1121	56.415	2.395	19.147	1.00	48.40
ATOM 2164 CG GLU 1121	57.553	2.283	20.112	1.00	58.39
ATOM 2165 CD GLU 1121	57.183	1.451	21.309	1.00	64.79
ATOM 2166 OE1 GLU 1121	56.403	0.483	21.119	1.00	67.43
ATOM 2167 OE2 GLU 1121	57.657	1.778	22.431	1.00	67.24
ATOM 2168 C GLU 1121	55.739	3.284	16.968	1.00	39.16
ATOM 2169 O GLU 1121	56.224	2.423	16.216	1.00	39.90
ATOM 2170 N GLY 1122	54.525	3.805	16.781	1.00	31.72
ATOM 2172 CA GLY 1122	53.838	3.550	15.531	1.00	22.36
ATOM 2173 C GLY 1122	52.427	3.064	15.646	1.00	19.85
ATOM 2174 O GLY 1122	51.791	2.779	14.633	1.00	18.01

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FIG. 7(45)

ATOM 2231 C ALA 1127	38.518	3.697	10.415	1.00	34.29
ATOM 2232 O ALA 1127	37.944	2.727	10.881	1.00	39.95
ATOM 2233 N PRO 1128	37.943	4.934	10.335	1.00	34.66
ATOM 2234 CD PRO 1128	38.477	6.142	9.685	1.00	35.04
ATOM 2235 CA PRO 1128	36.612	5.251	10.871	1.00	31.59
ATOM 2236 CB PRO 1128	36.511	6.776	10.669	1.00	32.56
ATOM 2237 CG PRO 1128	37.819	7.222	10.499	1.00	31.06
ATOM 2238 C PRO 1128	35.648	4.597	9.916	1.00	33.99
ATOM 2239 O PRO 1128	35.975	4.429	8.749	1.00	38.28
ATOM 2240 N ASP 1129	34.416	4.371	10.344	1.00	31.98
ATOM 2242 CA ASP 1129	33.425	3.728	9.489	1.00	34.11
ATOM 2243 CB ASP 1129	32.157	3.432	10.277	1.00	29.91
ATOM 2244 CG ASP 1129	32.447	2.811	11.623	1.00	34.04
ATOM 2245 OD1 ASP 1129	33.519	2.172	11.805	1.00	35.22
ATOM 2246 OD2 ASP 1129	31.597	2.976	12.515	1.00	36.43
ATOM 2247 C ASP 1129	33.061	4.360	8.158	1.00	35.75
ATOM 2248 O ASP 1129	32.441	3.699	7.312	1.00	38.26
ATOM 2249 N TYR 1130	33.444	5.613	7.925	1.00	32.58
ATOM 2251 CA TYR 1130	33.056	6.200	6.649	1.00	34.86
ATOM 2252 CB TYR 1130	32.067	7.332	6.888	1.00	38.26
ATOM 2253 CG TYR 1130	30.996	6.960	7.889	1.00	37.51
ATOM 2254 CD1 TYR 1130	31.208	7.153	9.245	1.00	36.44
ATOM 2255 CE1 TYR 1130	30.249	6.853	10.148	1.00	40.00
ATOM 2256 CD2 TYR 1130	29.787	6.442	7.468	1.00	39.18
ATOM 2257 CE2 TYR 1130	28.813	6.143	8.360	1.00	34.53
ATOM 2258 CZ TYR 1130	29.050	6.353	9.709	1.00	39.16
ATOM 2259 OH TYR 1130	28.120	6.147	10.690	1.00	47.34
ATOM 2261 C TYR 1130	34.136	6.657	5.732	1.00	34.80
ATOM 2262 O TYR 1130	33.853	7.257	4.694	1.00	27.05
ATOM 2263 N THR 1131	35.388	6.414	6.108	1.00	37.58
ATOM 2265 CA THR 1131	36.457	6.829	5.238	1.00	38.70
ATOM 2266 CB THR 1131	37.783	6.598	5.763	1.00	39.57
ATOM 2267 OG1 THR 1131	37.775	5.417	6.564	1.00	51.23
ATOM 2269 CG2 THR 1131	38.250	7.775	6.481	1.00	49.58
ATOM 2270 C THR 1131	36.476	6.071	3.955	1.00	38.19
ATOM 2271 O THR 1131	35.913	4.967	3.808	1.00	38.82
ATOM 2272 N THR 1132	37.297	6.649	3.104	1.00	31.58
ATOM 2274 CA THR 1132	37.638	6.148	1.836	1.00	27.37
ATOM 2275 CB THR 1132	37.591	7.302	0.887	1.00	18.06
ATOM 2276 OG1 THR 1132	36.274	7.366	0.348	1.00	29.75

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FIG. 7(46)

ATOM 2278 CG2 THR 1132	38.528	7.126	-0.161	1.00	32.09
ATOM 2279 C THR 1132	39.064	5.634	2.159	1.00	31.18
ATOM 2280 O THR 1132	39.678	6.088	3.149	1.00	37.35
ATOM 2281 N PRO 1133	39.543	4.601	1.439	1.00	29.49
ATOM 2282 CD PRO 1133	38.884	3.875	0.336	1.00	28.18
ATOM 2283 CA PRO 1133	40.876	4.065	1.686	1.00	23.60
ATOM 2284 CB PRO 1133	41.029	2.998	0.604	1.00	29.05
ATOM 2285 CG PRO 1133	39.640	2.581	0.319	1.00	28.36
ATOM 2286 C PRO 1133	41.917	5.122	1.500	1.00	22.87
ATOM 2287 O PRO 1133	42.944	5.119	2.182	1.00	30.07
ATOM 2288 N GLU 1134	41.700	5.983	0.511	1.00	18.80
ATOM 2290 CA GLU 1134	42.656	7.049	0.264	1.00	22.21
ATOM 2291 CB GLU 1134	42.594	7.573	-1.160	1.00	26.28
ATOM 2292 CG GLU 1134	41.214	7.564	-1.765	1.00	40.23
ATOM 2293 CD GLU 1134	40.901	6.347	-2.617	1.00	42.05
ATOM 2294 OE1 GLU 1134	41.727	6.004	-3.504	1.00	44.65
ATOM 2295 OE2 GLU 1134	39.799	5.779	-2.453	1.00	44.07
ATOM 2296 C GLU 1134	42.547	8.164	1.300	1.00	21.07
ATOM 2297 O GLU 1134	43.528	8.877	1.543	1.00	20.78
ATOM 2298 N MET 1135	41.375	8.304	1.940	1.00	20.24
ATOM 2300 CA MET 1135	41.233	9.304	2.996	1.00	16.52
ATOM 2301 CB MET 1135	39.775	9.658	3.319	1.00	17.57
ATOM 2302 CG MET 1135	39.158	10.807	2.420	1.00	15.02
ATOM 2303 SD MET 1135	40.199	12.320	2.187	1.00	20.17
ATOM 2304 CE MET 1135	40.632	12.648	3.877	1.00	13.20
ATOM 2305 C MET 1135	41.974	8.751	4.191	1.00	20.41
ATOM 2306 O MET 1135	42.772	9.461	4.787	1.00	25.79
ATOM 2307 N TYR 1136	41.836	7.448	4.445	1.00	20.30
ATOM 2309 CA TYR 1136	42.565	6.817	5.540	1.00	17.65
ATOM 2310 CB TYR 1136	42.082	5.394	5.832	1.00	21.89
ATOM 2311 CG TYR 1136	42.786	4.775	7.041	1.00	26.17
ATOM 2312 CD1 TYR 1136	42.702	5.353	8.325	1.00	20.81
ATOM 2313 CE1 TYR 1136	43.364	4.781	9.427	1.00	17.33
ATOM 2314 CD2 TYR 1136	43.554	3.612	6.900	1.00	26.03
ATOM 2315 CE2 TYR 1136	44.225	3.034	7.998	1.00	12.75
ATOM 2316 CZ TYR 1136	44.124	3.615	9.245	1.00	16.64
ATOM 2317 OH TYR 1136	44.791	2.999	10.281	1.00	17.57
ATOM 2319 C TYR 1136	44.077	6.847	5.267	1.00	14.28
ATOM 2320 O TYR 1136	44.892	7.066	6.179	1.00	19.62
ATOM 2321 N GLN 1137	44.479	6.693	4.022	1.00	12.55

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FIG. 7(47)

ATOM 2323 CA GLN 1137	45.903	6.777	3.758	1.00	16.34
ATOM 2324 CB GLN 1137	46.218	6.412	2.325	1.00	18.36
ATOM 2325 CG GLN 1137	47.702	6.654	1.945	1.00	21.79
ATOM 2326 CD GLN 1137	48.613	5.655	2.561	1.00	14.21
ATOM 2327 OE1 GLN 1137	48.416	4.469	2.381	1.00	22.64
ATOM 2328 NE2 GLN 1137	49.571	6.111	3.344	1.00	18.97
ATOM 2331 C GLN 1137	46.415	8.193	4.041	1.00	20.40
ATOM 2332 O GLN 1137	47.598	8.378	4.391	1.00	25.11
ATOM 2333 N THR 1138	45.564	9.194	3.807	1.00	18.65
ATOM 2335 CA THR 1138	45.939	10.568	4.068	1.00	15.52
ATOM 2336 CB THR 1138	44.921	11.507	3.538	1.00	19.97
ATOM 2337 OG1 THR 1138	44.797	11.257	2.144	1.00	18.74
ATOM 2339 CG2 THR 1138	45.381	12.939	3.722	1.00	21.70
ATOM 2340 C THR 1138	46.111	10.721	5.566	1.00	12.73
ATOM 2341 O THR 1138	47.067	11.344	6.010	1.00	18.83
ATOM 2342 N MET 1139	45.233	10.118	6.352	1.00	9.32
ATOM 2344 CA MET 1139	45.402	10.151	7.809	1.00	12.25
ATOM 2345 CB MET 1139	44.295	9.349	8.480	1.00	13.21
ATOM 2346 CG MET 1139	42.967	10.007	8.354	1.00	5.60
ATOM 2347 SD MET 1139	41.708	8.982	9.003	1.00	17.66
ATOM 2348 CE MET 1139	40.510	9.337	7.925	1.00	2.00
ATOM 2349 C MET 1139	46.773	9.567	8.198	1.00	15.96
ATOM 2350 O MET 1139	47.573	10.237	8.855	1.00	17.30
ATOM 2351 N LEU 1140	47.058	8.333	7.770	1.00	15.29
ATOM 2353 CA LEU 1140	48.357	7.735	8.081	1.00	14.20
ATOM 2354 CB LEU 1140	48.542	6.409	7.326	1.00	6.27
ATOM 2355 CG LEU 1140	47.511	5.373	7.745	1.00	15.42
ATOM 2356 CD1 LEU 1140	47.656	4.103	6.927	1.00	8.64
ATOM 2357 CD2 LEU 1140	47.648	5.103	9.246	1.00	14.99
ATOM 2358 C LEU 1140	49.518	8.684	7.751	1.00	17.20
ATOM 2359 O LEU 1140	50.552	8.691	8.442	1.00	18.73
ATOM 2360 N ASP 1141	49.396	9.413	6.644	1.00	20.16
ATOM 2362 CA ASP 1141	50.442	10.374	6.229	1.00	19.52
ATOM 2363 CB ASP 1141	50.139	10.963	4.851	1.00	20.89
ATOM 2364 CG ASP 1141	50.228	9.942	3.772	1.00	25.01
ATOM 2365 OD1 ASP 1141	50.537	8.765	4.074	1.00	30.17
ATOM 2366 OD2 ASP 1141	49.994	10.321	2.624	1.00	26.42
ATOM 2367 C ASP 1141	50.627	11.521	7.207	1.00	15.10
ATOM 2368 O ASP 1141	51.762	11.905	7.502	1.00	8.73
ATOM 2369 N CYS 1142	49.504	12.101	7.637	1.00	10.75

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FIG. 7(48)

ATOM 2371	CA	CYS	1142	49.516	13.196	8.590	1.00	13.88
ATOM 2372	CB	CYS	1142	48.110	13.776	8.739	1.00	17.83
ATOM 2373	SG	CYS	1142	47.414	14.574	7.291	1.00	17.66
ATOM 2374	C	CYS	1142	50.042	12.717	9.961	1.00	15.52
ATOM 2375	O	CYS	1142	50.545	13.513	10.734	1.00	16.31
ATOM 2376	N	TRP	1143	49.883	11.424	10.266	1.00	20.06
ATOM 2378	CA	TRP	1143	50.344	10.830	11.528	1.00	17.66
ATOM 2379	CB	TRP	1143	49.393	9.727	11.991	1.00	15.44
ATOM 2380	CG	TRP	1143	48.041	10.236	12.273	1.00	14.25
ATOM 2381	CD2	TRP	1143	46.814	9.495	12.233	1.00	18.13
ATOM 2382	CE2	TRP	1143	45.774	10.401	12.540	1.00	12.59
ATOM 2383	CE3	TRP	1143	46.490	8.143	11.966	1.00	16.02
ATOM 2384	CD1	TRP	1143	47.710	11.514	12.605	1.00	7.90
ATOM 2385	NE1	TRP	1143	46.355	11.618	12.768	1.00	13.52
ATOM 2387	CZ2	TRP	1143	44.425	10.012	12.592	1.00	8.83
ATOM 2388	CZ3	TRP	1143	45.155	7.755	12.017	1.00	11.61
ATOM 2389	CH2	TRP	1143	44.133	8.691	12.327	1.00	16.83
ATOM 2390	C	TRP	1143	51.765	10.281	11.442	1.00	23.22
ATOM 2391	O	TRP	1143	52.208	9.507	12.298	1.00	27.31
ATOM 2392	N	HIS	1144	52.510	10.722	10.440	1.00	24.48
ATOM 2394	CA	HIS	1144	53.876	10.280	10.299	1.00	26.08
ATOM 2395	CB	HIS	1144	54.495	10.859	9.023	1.00	19.25
ATOM 2396	CG	HIS	1144	55.791	10.214	8.654	1.00	18.57
ATOM 2397	CD2	HIS	1144	56.923	10.003	9.374	1.00	14.60
ATOM 2398	ND1	HIS	1144	56.016	9.657	7.415	1.00	19.61
ATOM 2400	CE1	HIS	1144	57.231	9.133	7.387	1.00	19.99
ATOM 2401	NE2	HIS	1144	57.803	9.332	8.562	1.00	15.04
ATOM 2403	C	HIS	1144	54.710	10.671	11.542	1.00	32.65
ATOM 2404	O	HIS	1144	54.626	11.795	12.031	1.00	31.70
ATOM 2405	N	GLY	1145	55.541	9.734	12.016	1.00	37.26
ATOM 2407	CA	GLY	1145	56.393	9.970	13.168	1.00	31.32
ATOM 2408	C	GLY	1145	57.251	11.212	13.001	1.00	35.04
ATOM 2409	O	GLY	1145	57.372	11.989	13.942	1.00	38.42
ATOM 2410	N	GLU	1146	57.915	11.373	11.852	1.00	34.51
ATOM 2412	CA	GLU	1146	58.735	12.577	11.598	1.00	37.16
ATOM 2413	CB	GLU	1146	59.871	12.303	10.627	1.00	37.16
ATOM 2414	CG	GLU	1146	61.093	11.742	11.292	1.00	50.26
ATOM 2415	CD	GLU	1146	61.186	10.243	11.110	1.00	54.17
ATOM 2416	OE1	GLU	1146	61.158	9.509	12.125	1.00	55.25
ATOM 2417	OE2	GLU	1146	61.280	9.804	9.938	1.00	59.09

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FIG. 7(51)

ATOM 2516 CD2 LEU 1156
 ATOM 2517 C LEU 1156
 ATOM 2518 O LEU 1156
 ATOM 2519 N VAL 1157
 ATOM 2521 CA VAL 1157
 ATOM 2522 CB VAL 1157
 ATOM 2523 CG1 VAL 1157
 ATOM 2524 CG2 VAL 1157
 ATOM 2525 C VAL 1157
 ATOM 2526 O VAL 1157
 ATOM 2527 N GLU 1158
 ATOM 2529 CA GLU 1158
 ATOM 2530 CB GLU 1158
 ATOM 2531 CG GLU 1158
 ATOM 2532 CD GLU 1158
 ATOM 2533 OE1 GLU 1158
 ATOM 2534 OE2 GLU 1158
 ATOM 2535 C GLU 1158
 ATOM 2536 O GLU 1158
 ATOM 2537 N HIS 1159
 ATOM 2539 CA HIS 1159
 ATOM 2540 CB HIS 1159
 ATOM 2541 CG HIS 1159
 ATOM 2542 CD2 HIS 1159
 ATOM 2543 ND1 HIS 1159
 ATOM 2545 CE1 HIS 1159
 ATOM 2546 NE2 HIS 1159
 ATOM 2548 C HIS 1159
 ATOM 2549 O HIS 1159
 ATOM 2550 N LEU 1160
 ATOM 2552 CA LEU 1160
 ATOM 2553 CB LEU 1160
 ATOM 2554 CG LEU 1160
 ATOM 2555 CD1 LEU 1160
 ATOM 2556 CD2 LEU 1160
 ATOM 2557 C LEU 1160
 ATOM 2558 O LEU 1160
 ATOM 2559 N GLY 1161
 ATOM 2561 CA GLY 1161
 ATOM 2562 C GLY 1161

46.927 16.150 3.708 1.00 14.36
 46.165 19.287 0.638 1.00 20.03
 45.105 18.711 0.355 1.00 26.86
 46.354 20.570 0.355 1.00 21.44
 45.303 21.283 -0.362 1.00 21.15
 45.513 22.801 -0.381 1.00 21.33
 44.569 23.453 -1.368 1.00 15.98
 45.198 23.340 0.974 1.00 13.87
 45.270 20.721 -1.760 1.00 22.88
 44.198 20.508 -2.333 1.00 25.54
 46.445 20.400 -2.282 1.00 23.10
 46.503 19.815 -3.603 1.00 27.24
 47.922 19.756 -4.115 1.00 32.82
 47.969 18.978 -5.404 1.00 44.73
 49.187 19.268 -6.212 1.00 51.53
 49.007 19.887 -7.292 1.00 54.31
 50.298 18.869 -5.765 1.00 51.10
 45.939 18.403 -3.643 1.00 26.42
 45.167 18.051 -4.546 1.00 25.91
 46.347 17.591 -2.669 1.00 26.36
 45.897 16.226 -2.611 1.00 21.52
 46.674 15.444 -1.576 1.00 25.28
 46.322 13.991 -1.545 1.00 24.66
 46.408 13.030 -2.497 1.00 24.44
 45.749 13.387 -0.452 1.00 21.30
 45.489 12.125 -0.731 1.00 23.16
 45.879 11.884 -1.961 1.00 19.88
 44.402 16.104 -2.391 1.00 21.56
 43.741 15.311 -3.066 1.00 22.19
 43.852 16.874 -1.456 1.00 20.25
 42.408 16.832 -1.209 1.00 17.66
 42.111 17.502 0.130 1.00 17.84
 42.676 16.760 1.352 1.00 20.17
 42.472 17.542 2.619 1.00 21.45
 41.992 15.454 1.512 1.00 19.45
 41.566 17.418 -2.395 1.00 17.71
 40.426 17.030 -2.624 1.00 15.39
 42.130 18.356 -3.153 1.00 23.52
 41.434 18.879 -4.322 1.00 21.37
 41.342 17.741 -5.346 1.00 23.91

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FIG. 7(52)

ATOM 2563 O GLY 1161	40.295	17.526	-5.971	1.00	23.05
ATOM 2564 N ASN 1162	42.439	16.997	-5.520	1.00	21.49
ATOM 2566 CA ASN 1162	42.428	15.854	-6.428	1.00	22.31
ATOM 2567 CB ASN 1162	43.771	15.109	-6.427	1.00	22.34
ATOM 2568 CG ASN 1162	44.904	15.888	-7.062	1.00	20.03
ATOM 2569 OD1 ASN 1162	44.705	16.903	-7.701	1.00	28.17
ATOM 2570 ND2 ASN 1162	46.117	15.401	-6.873	1.00	32.22
ATOM 2573 C ASN 1162	41.356	14.851	-5.969	1.00	23.05
ATOM 2574 O ASN 1162	40.570	14.378	-6.769	1.00	26.11
ATOM 2575 N LEU 1163	41.360	14.490	-4.688	1.00	21.05
ATOM 2577 CA LEU 1163	40.405	13.523	-4.166	1.00	19.91
ATOM 2578 CB LEU 1163	40.695	13.172	-2.689	1.00	19.18
ATOM 2579 CG LEU 1163	41.675	12.042	-2.275	1.00	18.62
ATOM 2580 CD1 LEU 1163	42.959	12.120	-3.020	1.00	24.35
ATOM 2581 CD2 LEU 1163	41.983	12.043	-0.804	1.00	14.82
ATOM 2582 C LEU 1163	39.015	14.038	-4.331	1.00	19.71
ATOM 2583 O LEU 1163	38.110	13.318	-4.767	1.00	23.11
ATOM 2584 N LEU 1164	38.860	15.328	-4.121	1.00	25.91
ATOM 2586 CA LEU 1164	37.533	15.941	-4.226	1.00	29.28
ATOM 2587 CB LEU 1164	37.603	17.388	-3.726	1.00	31.25
ATOM 2588 CG LEU 1164	36.348	18.176	-3.371	1.00	25.75
ATOM 2589 CD1 LEU 1164	35.429	17.396	-2.435	1.00	31.52
ATOM 2590 CD2 LEU 1164	7.018	15.866	-5.653	1.00	30.07
ATOM 2592 O LEU 1164	35.953	15.330	-5.903	1.00	32.61
ATOM 2593 N GLN 1165	37.810	16.344	-6.598	1.00	33.76
ATOM 2595 CA GLN 1165	37.423	16.317	-8.003	1.00	39.95
ATOM 2596 CB GLN 1165	38.451	17.048	-8.855	1.00	46.90
ATOM 2597 CG GLN 1165	38.758	18.474	-8.480	1.00	49.81
ATOM 2598 CD GLN 1165	39.874	19.024	-9.348	1.00	56.23
ATOM 2599 OE1 GLN 1165	41.056	18.945	-8.997	1.00	55.97
ATOM 2600 NE2 GLN 1165	39.508	19.536	-10.518	1.00	60.66
ATOM 2603 C GLN 1165	37.304	14.898	-8.554	1.00	39.33
ATOM 2604 O GLN 1165	36.652	14.685	-9.568	1.00	42.09
ATOM 2605 N ALA 1166	38.059	13.965	-7.988	1.00	36.82
ATOM 2607 CA ALA 1166	37.994	12.586	-8.441	1.00	34.66
ATOM 2608 CB ALA 1166	39.096	11.748	-7.814	1.00	32.78
ATOM 2609 C ALA 1166	36.640	12.103	-7.991	1.00	36.63
ATOM 2610 O ALA 1166	35.969	11.381	-8.713	1.00	39.47
ATOM 2611 N ASN 1167	36.226	12.532	-6.800	1.00	40.01
ATOM 2613 CA ASN 1167	34.911	12.158	-6.264	1.00	42.40

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